# *MEGA 865*

User's Guide

**Version 1.2**

CE N1996

## FCC-B Radio Frequency Interference Statement

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

**Notice 1**
The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**Notice 2**
Shielded interface cables and AC. power cord, if any, must be used in order to comply with the emission limits.

**VOIR LA NOTICE D'INSTALLATION AVANT DE RACCORDER AU RESEAU.**

FC **Micro-Star International**
**MEGA 865**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

## Lithium Battery Statement

**CAUTION**

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

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## Safety Instructions

1. Always read the safety instructions carefully.
2. Keep this User's Manual for future reference.
3. Keep this equipment away from humidity.
4. Lay this equipment on a reliable flat surface before setting it up.
5. The openings on the enclosure are for air convection hence protects the equipment from overheating. DO NOT COVER THE OPENINGS.
6. Make sure the voltage of the power source and adjust properly 115/230V before connecting the equipment to the power inlet.
7. Place the power cord such a way that people can not step on it. Do not place anything over the power cord.
8. Always Unplug the Power Cord before inserting any add-on card or module.
9. All cautions and warnings on the equipment should be noted.
10. Never pour any liquid into the opening that could damage or cause electrical shock.
11. If any of the following situations arises, get the equipment checked by a service personnel:
    - The power cord or plug is damaged.
    - Liquid has penetrated into the equipment.
    - The equipment has been exposed to moisture.
    - The equipment has not work well or you can not get it work according to User's Manual.
    - The equipment has dropped and damaged.
    - The equipment has obvious sign of breakage.

12. DO NOT LEAVE THIS EQUIPMENT IN AN ENVIRONMENT UNCONDITIONED, STORAGE TEMPERATURE ABOVE $60^0$ C ($140^0$F), IT MAY DAMAGE THE EQUIPMENT.

**CAUTION:** Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer.

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## Revision History

| Revision | Revision History | Date |
|---|---|---|
| V1.0 | First Release | December 2003 |
| v1.1 | Update BIOS and spec. | April 2004 |
| v1.2 | Update Chapter 4 & 5 | July 2004 |

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# 1 Getting Started

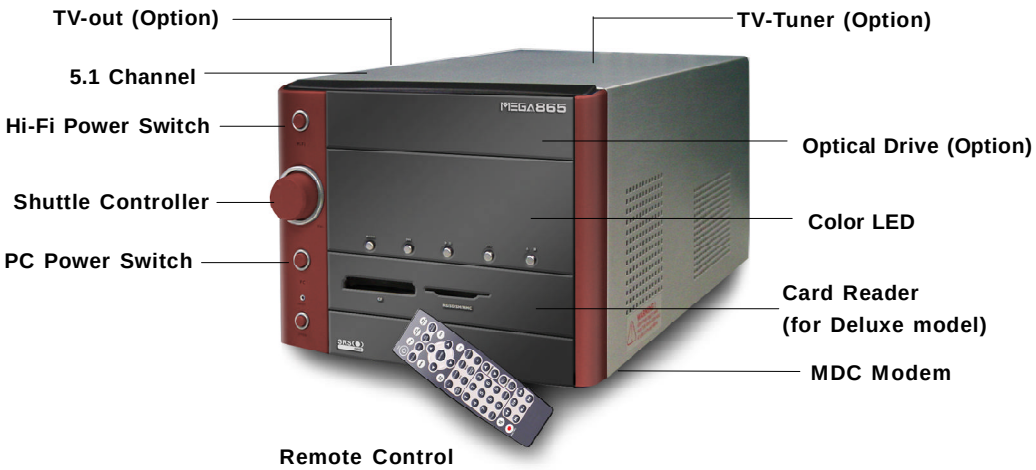
1.1 All-in-One Feature Set
1.2 System Specification
1.3 Performance PC
1.4 Hi-Fi Audio

Chapter 1

# 1.1 ALL-IN-ONE FEATURE SET

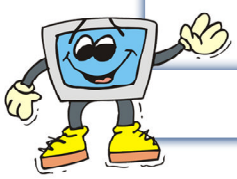
The MEGA 865 implements all the Hi-Fi Stereo into Home-PC with a fancy color LED and control panel in the front bezel. When PC is powered off, you can use it just like a Hi-Fi Stereo with a remote controller. When PC is powered on, you can use it as a Home Theater or Media Center PC. The all-in-one feature provides you with multiple functions in a small form factor. It can be set anywhere you want, such as bedroom or living room, while it can be easily moved to anywhere whenever you need.

See the following for the features:

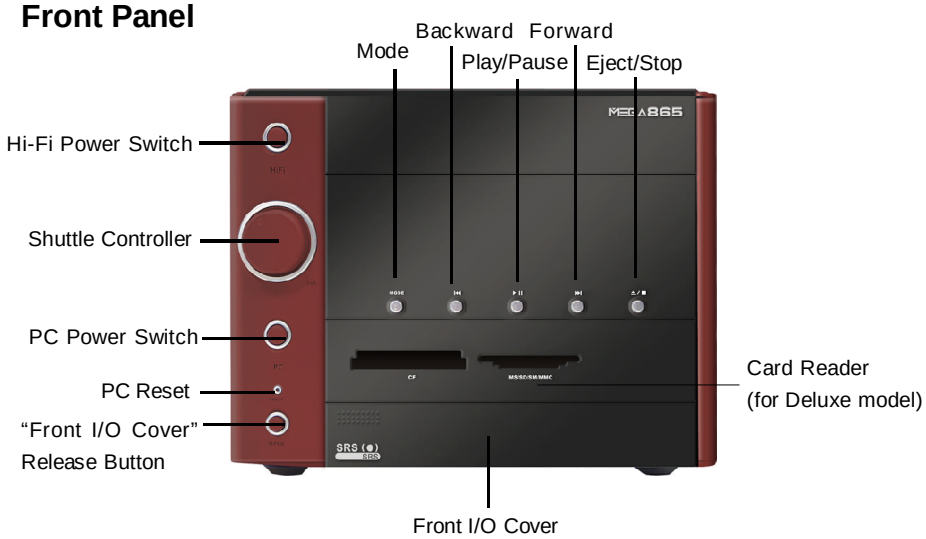



**ATTENTION!!!**

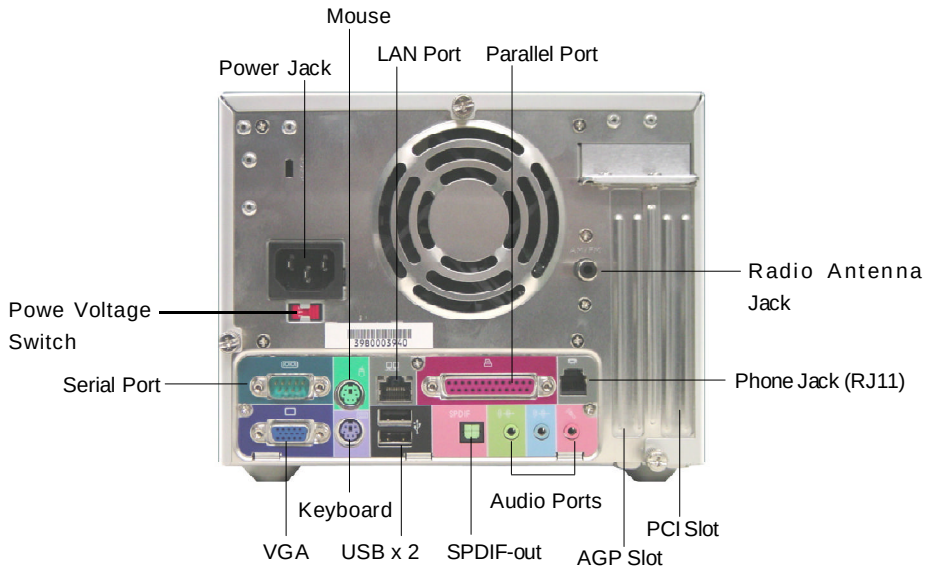
**Check the AC power voltage switch on the back panel. Select the voltage that is appropriate to the country you are in.**



## Front Panel




## Back Panel



# 1.2 SYSTEM SPECIFICATION

**M/B**

- MS-6797 (Proprietary F/F), 185 x 290 mm (6 layer)

**CPU:**

- Support Socket 478 for Intel® P4 Northwood up to 3.2GHz and Prescott up to 2.8GHz

**Note: Please use a half-height AGP card with your Prescott CPU.**

(For the latest information about CPU, please visit our Web site at http://www.msi.com.tw/program/products/slim_pc/slm/pro_slm_cpu_support.php)

**Chipset:**

- Intel 865G + FW82801EB (Springdale G + ICH5)

**Memory:**

- DDR 400 x 2, support memory up to 2.0GB (Dual Channel support)

**On-Board Audio:**

- AC'97 Codec integrated in Realtek658, support 5.1 channel, SPDIF In/Out

**On-Board VGA:**

- Integrated in Intel 865G (AGP 8X)
- On-Board VGA memory: None

**On-Board Communication**

- LAN: BCM4401 (10/100M)
- Modem: MDC module (optional)
- WLAN: Mini-PCI

**On-Board USB**

- USB2.0 x 6 (Front x 2, Rear x 2; On-Board x 2 for Card Reader & RF K/B, M/S)

**On-Board IEEE 1394**:

- NEC PD72874 (2 ports), Front x 2 (4 pin, 6 pin)

**Expansion Slots:**

- PCI 2.2 x 1, AGP (8X) x1, Mini PCI x 1, SATA x 1

**Power Off Function:**

- Playback for Audio CD, MP3, AM/FM Radio Tuner (with remote control)

**TV Tuner Function**

- MS-8606 (optional PCI card with remote control)

**Power Supply:**

- 250W (PFC 5V/12V SB) Full Range

**Chassis:**

- 202(W) x 320(D) x 151(H) mm

**On-Board Headers & Connectors**

- Rear Panel: Parallel Port x 1, VGA x 1, Serial Port x 1, PS/2 x 2, Mic in/Line in/ Line out x 1, USB x 2, LAN (RJ45) x 1, SPDIF/O x 1, Phone Jack (RJ11) x 1
- Front Panel: Mic-in x 1, Headphone x 1, USB x 2, SPDIF/I x 1, 1394 x 1 (4-pin), 1394 x 1(6-pin)

**BIOS:** 4MB Flash

**Clock Generator:** Integrated in ICS952617

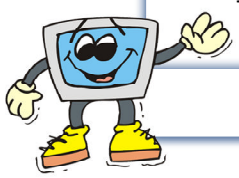
**Others**

- Microsoft® PC 2001
- LAN Wake Up Function
- Suspend to RAM/Disk function
- Top Tech III (Thermal Overheat Protection Technology)
- PC Alert System Hardware Monitor
- On-Board BlueBird Module for Power-Off features
- Color LED
- Support Windows XP only

**ATTENTION!!!**

The file system format in Compact Disc (CD) is based on ISO9660. However, the format on DVD disc is a subset of UDF (Universal Disk Format) called micro UDF (M-UDF), which is based on ISO13346.

So far BVL+ does not support DVD format. That is the reason you see strange symptom when using DVD discs.



# 1.3 PERFORMANCE PC

When PC is power on, the MEGA 865 is your performance PC. Power on means "If the power button of PC is pressed, the Hi-Fi stereo has no function even you press the Hi-Fi button." However, you can still use the audio function through Windows Media Player and Mega Radio.


Deluxe model

## Features

Supports Socket 478 for Intel® P4 Northwood up to 3.2GHz and Prescott up to 2.8GHz
1 x PCI
1 x AGP

Front I/O
- Mic-in & Head-Phone
- USB x 2
- 1394 x 2 (6-pin & 4-pin)
- Optical SPDIF-in
- 6-in-1 Card Reader (for Deluxe model)

Rear I/O
- COM/VGA/Parallel/PS2 x 2
- LAN (RJ45)
- USB x 2
- Optical SPDIF-out
- Speaker-out/Line-in/Mic-in (5.1channel)
- Phone Jack (RJ11)
- Radio Antenna

*See Chapter 2 for more information on mainboard, Front and Rear I/O.*

### Security

-- The security features protect the data of machine from unauthorized access through BIOS control.

### Password

-- The MEGA 865 uses two levels of BIOS access (User Password & Supervisor Password) to protect the computer system.

### Storage Subsystem

1) Hard Disk
2) CD-ROM (optional)
3) DVD-ROM (optional)
4) CD-RW (optional)
5) DVD/CD-RW Combo (optional)
6) 6-in-1 Card Reader (for Deluxe model)


In pure barebone Hi-Fi mode with NO CPU, Memory, and Had Disk installed, if you push the PC power button, the system will be no function or hang up. The Hi-Fi mode will also malfunction. It's impossible to recover the system by pressing power button for 4 seconds. The only way is to unplug power cord and reset the system.

# 1.4 HI-FI AUDIO

When PC is powered off, the MEGA 865 can be used as a Hi-Fi audio. You can press the Hi-Fi button or use the remote control to start the audio function. Power-off means “When used as a Hi-Fi audio, the PC should be in power-off status. If you press the PC power button on, the Hi-Fi audio will be disabled .”

**Option 1**

Press the Power button to use the audio function


Deluxe model

**Option 2**

Press the Hi-Fi button to use the audio function

## Features

Color LED, Clock, AM/FM Radio Tuner, Audio CD Play, MP3 CD Play, SRS

*See Chapter 3 for more information on the audio function.*

## SRS

MEGA 865 is equipped with SRS audio enforcement technology. SRS (Sound Retrieval System) was the first generation of 3D sound, dramatically improving the quality of standard stereo. SRS is based on the human hearing system and was designed to retrieve the natural spatial cues and ambient information that is present in audio but masked by traditional recording and playback methods.

Whether the signal is mono or stereo, SRS expands the audio material to create a realistic three-dimensional sound image. SRS has no sweet-spot and fills the room with a sound experience much closer to that of a live performance.

SRS is a trademark of SRS Labs, Inc. SRS technology is incorporated under license from SRS Labs, Inc.

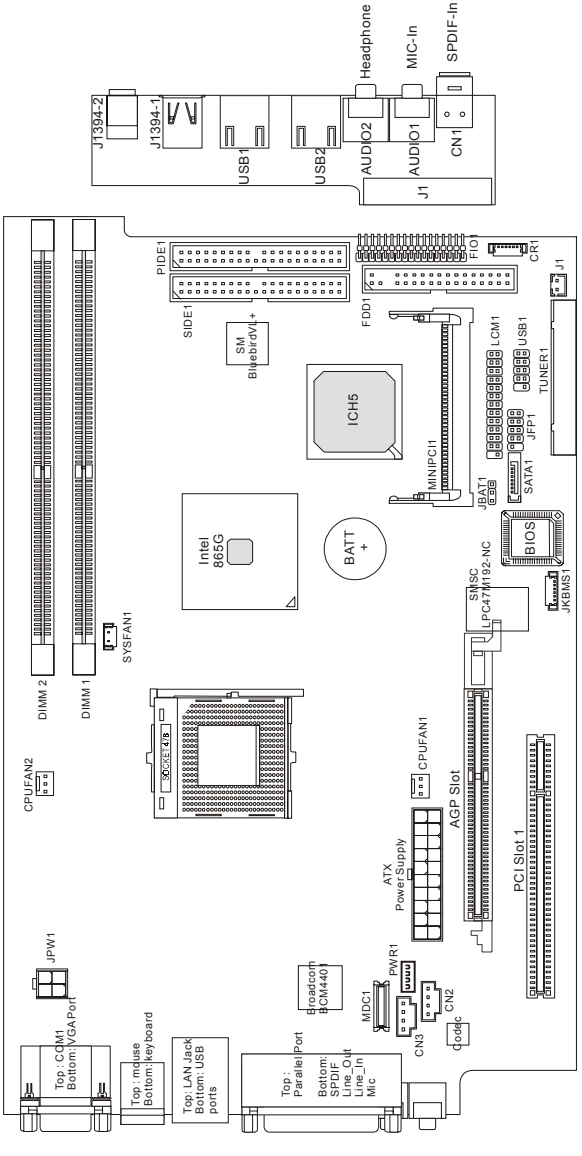

After connecting the speaker, please keep at least 2.5 CM space between speaker and the venting holes on the chassis. Do not let the speaker block the venting holes.

# 2 Introducing Mainboard

2.1 Mainboard Layout
2.2 CPU
2.3 Memory
2.4 Power Supply
2.5 Front Panel
2.6 Back Panel
2.7 Connectors
2.8 Jumper
2.9 Slots

Chapter 2

# 2.1 MAINBOARD LAYOUT




**MS-6797 v1.X Mainboard**

## 2.2 CPU

This mainboard supports Intel® P4 Northwood up to 3.2GHz and Prescott up to 2.8GHz. The mainboard uses a CPU socket called PGA478 for easy CPU installation. When you are installing the CPU, make sure the CPU has a heat sink and a cooling fan attached on the top to prevent overheating.

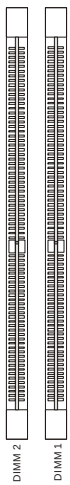
***Overheating***
*Overheating will seriously damage the CPU and system, always make sure the cooling fan can work properly to protect the CPU from overheating.*

## 2.3 MEMORY

The mainboard provides 2 slots for 184-pin DDR SDRAM DIMM (Double In-Line Memory Module) modules and supports the memory size up to 2GB. You can install DDR400/DDR333/DDR266 modules into the DDR DIMM slots.

### Introduction to DDR SDRAM

DDR (Double Data Rate) SDRAM is similar to conventional SDRAM, but doubles the rate by transferring data twice per cycle. It uses 2.5 volts as opposed to 3.3 volts used in SDR SDRAM, and requires 184-pin DIMM modules rather than 168-pin DIMM modules used by SDR SDRAM. High memory bandwidth makes DDR an ideal solution for high performance PC, workstations and servers.



## Memory Speed/CPU FSB Support Matrix

| Memory / FSB | DDR266 | DDR333 | DDR400 |
|---|---|---|---|
| FSB400 | OK | N/A | N/A |
| FSB533 | OK | OK | N/A |
| FSB800 | OK | OK | OK |

## DIMM Module Combination

Install at least one DIMM module on the slots. You can install either single- or double-sided modules in any order to meet your own needs. Memory modules can be installed in any combination as follows:

| Slot | Memory Module | Total Memory |
|---|---|---|
| DIMM 1 (Bank 0 & 1) | DDR S/D | 64MB~1GB |
| DIMM 2 (Bank 2 & 3) | DDR S/D | 64MB~1GB |
| Maximum System Memory Supported | | 64MB~2GB |

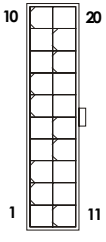
S: Single Side
D: Double Side

# 2.4 POWER SUPPLY

The system is equipped with a 250W(PFC) ATX power supply. The power cord of power supply has been connected to the connector JWR1 on the mainboard when shipped out. Except the 20-pin connector ATX1, you can find another 4-pin power connector JPW1 on the mainboard.

**JWR1 Pin Definition**

| PIN | SINGAL | PIN | SIGNAL |
|---|---|---|---|
| 1 | 3.3V | 11 | 3.3V |
| 2 | 3.3V | 12 | -12V |
| 3 | GND | 13 | GND |
| 4 | 5V | 14 | PS_ON |
| 5 | GND | 15 | GND |
| 6 | 5V | 16 | GND |
| 7 | GND | 17 | GND |
| 8 | PW_OK | 18 | |
| 9 | 5V_SB | 19 | 5V |
| 10 | 12V | 20 | 5V |




**ATX1**

**JPW1 Pin Definition**

| PIN | SINGAL |
|---|---|
| 1 | GND |
| 2 | GND |
| 3 | 12V |
| 4 | 12V |

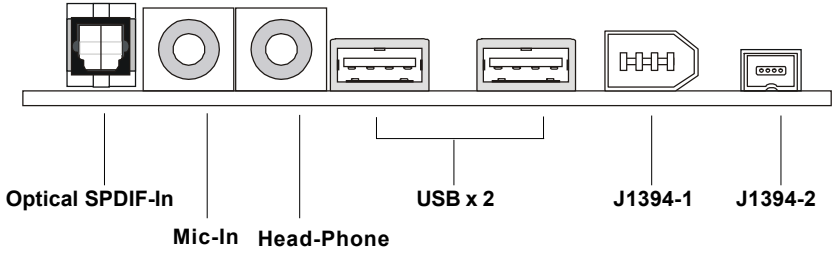

**JPW1**

## Power Supply Specification

| | |
|---|---|
| **Dimension** | **70 (H)x1450(W)x105(D) mm** |
| PFC | Yes (passive) |
| Wattage | 250W Max |
| Electrical Design Specification | AC Output :100-127/200-240 VAC,<br>Switch Selectable, **Auto Protection**<br>DC Output :+3.3V 17A<br>:+5V 12A<br>:+12V 13.5A<br>:-12V 0.5A<br>:+5Vsb 3A<br>:+12Vsb 2.5A<br>80 mm PWM Fan |
| Certificate | FCC/UL/CUL/BSMI/CB/NEMKO/TUV |

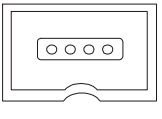
# 2.5 FRONT PANEL

The Front Panel is independent and extended from the mainboard. It's connected to the Front I/O Connector on the mainboard. You can find the following ports on the Front Panel.




## IEEE 1394 Port: J1394-2

The mainboard provides two IEEE 1394 ports. This smaller one is designed for you to connect the IEEE 1394 device with external power. The IEEE 1394 high-speed serial bus complements USB by providing enhanced PC connectivity for a wide range of devices, including consumer electronics audio/video (A/V) appliances, storage peripherals, other PCs, and portable devices.

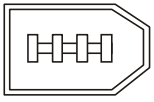


***Software Support***

*IEEE 1394 Driver is provided by Windows® 98 SE, Windows® XP, Windows® ME and Windows® 2000. Just plug in the IEEE 1394 connector into the port. These Operating Systems will install the driver for IEEE 1394.*

## IEEE 1394 Port: J1394-1

The bigger 6-pin IEEE 1394 Port on the back panel is designed for you to connect to IEEE 1394 devices without external power. That means the mainboard can provide the power for the devices connected to this port.

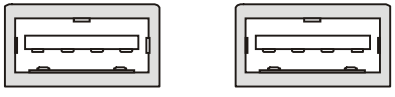


***Software Support***

*IEEE 1394 Driver is provided by Windows® 98 SE, Windows® XP, Windows® ME and Windows® 2000. Just plug in the IEEE 1394 connector into the port. These Operating Systems will install the driver for IEEE 1394.*

## USB Ports

The mainboard provides an OHCI (Open Host Controller Interface) Universal Serial Bus root for attaching USB devices such as keyboard, mouse or other USB-compatible devices. You can plug the USB device directly into the connector.



**USB Port Description**

| PIN | SIGNAL | DESCRIPTION |
|---|---|---|
| 1 | VCC | +5V |
| 2 | -Data 0 | Negative Data Channel 0 |
| 3 | +Data 0 | Positive Data Channel 0 |
| 4 | GND | Ground |
| 5 | VCC | +5V |
| 6 | -Data 1 | Negative Data Channel 1 |
| 7 | +Data 1 | Positive Data Channel 1 |
| 8 | GND | Ground |

## Mic-in/Head-Phone

Mic-in is a connector for microphone. Head-Phone is a connector for Speakers or Headphones.

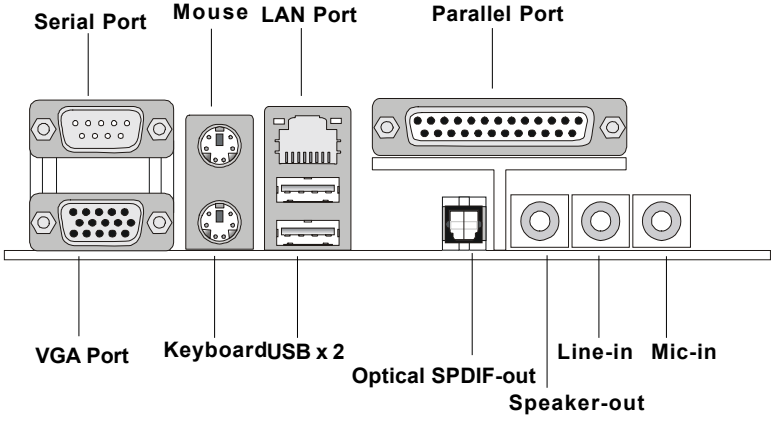
## OPTICAL SPDIF-in

The OPTICAL connector allows you to receive the audio file of SPDIF interface for recording and playing.

The SPDIF (Sony & Philips Digital Interface) is developed jointly by the Sony and Philips corporations . A standard audio file transfer format, SPDIF allows the transfer of digital audio signals from one device to another without having to be converted first to an analog format.

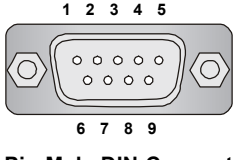
# 2.6 BACK PANEL

The Back Panel provides the following ports:




## Serial Port

The mainboard offers a 9-pin male DIN serial port . The port is 16550A high speed communication ports that sends/receives 16 bytes FIFOs. You can attach a serial mouse or other serial devices directly to the connector.



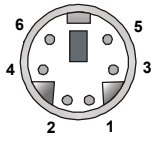

**9-Pin Male DIN Connector**

**Pin Definition**

| PIN | SIGNAL | DESCRIPTION |
|---|---|---|
| 1 | DCD | Data Carry Detect |
| 2 | SIN | Serial In or Receive Data |
| 3 | SOUT | Serial Out or Transmit Data |
| 4 | DTR | Data Terminal Ready |
| 5 | GND | Ground |
| 6 | DSR | Data Set Ready |
| 7 | RTS | Request To Send |
| 8 | CTS | Clear To Send |
| 9 | RI | Ring Indicate |

## Mouse/Keyboard Connectors

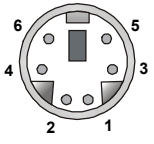
The mainboard provides two standard mini DIN connectors for attaching PS/2® mouse and keyboard. You can plug a PS/2® mouse or keyboard directly into the connector.




**PS/2 Mouse (6-pin Female)**

**Pin Definition**

| PIN | SIGNAL | DESCRIPTION |
|---|---|---|
| 1 | Mouse DATA | Mouse DATA |
| 2 | NC | No connection |
| 3 | GND | Ground |
| 4 | VCC | +5V |
| 5 | Mouse Clock | Mouse clock |
| 6 | NC | No connection |



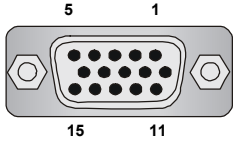

**PS/2 Keyboard (6-pin Female)**

**Pin Definition**

| PIN | SIGNAL | DESCRIPTION |
|---|---|---|
| 1 | Keyboard DATA | Keyboard DATA |
| 2 | NC | No connection |
| 3 | GND | Ground |
| 4 | VCC | +5V |
| 5 | Keyboard Clock | Keyboard clock |
| 6 | NC | No connection |

## VGA Port

The mainboard provides one DB 15-pin female connector to connect a VGA monitor.



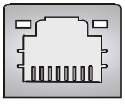

**DB 15-Pin Female Connector**

**Pin Definition**

| Analog Video Display Connector (DB-15s) | |
|---|---|
| **PIN** | **SIGNAL DESCRIPTION** |
| 1 | Red |
| 2 | Green |
| 3 | Blue |
| 4 | Not used |
| 5 | Ground |
| 6 | Ground |
| 7 | Ground |
| 8 | Ground |
| 9 | Power |
| 10 | Ground |
| 11 | Not used |
| 12 | SDA |
| 13 | Horizontal Sync |
| 14 | Vertical Sync |
| 15 | SCL |

## RJ45 LAN Jack

The mainboard provides one standard RJ-45 jack for connection to Local Area Network (LAN). You can connect a network cable to the LAN jack.

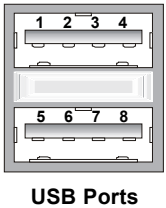


**Pin Definition**

| PIN | SIGNAL | DESCRIPTION |
|---|---|---|
| 1 | TDP | Transmit Differential Pair |
| 2 | TDN | Transmit Differential Pair |
| 3 | RDP | Receive Differential Pair |
| 4 | NC | Not Used |
| 5 | NC | Not Used |
| 6 | RDN | Receive Differential Pair |
| 7 | NC | Not Used |
| 8 | NC | Not Used |

## USB Ports

The mainboard provides two USB2.0 EHCI/USB1.1 OHCI Universal Serial Bus root for attaching USB devices such as keyboard, mouse or other USB-compatible devices. You can plug the USB device directly into the connector.




**USB Ports**

**USB Port Description**

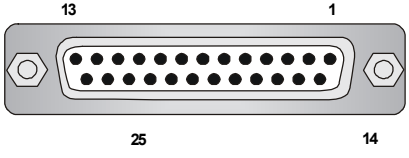
| PIN | SIGNAL | DESCRIPTION |
|---|---|---|
| 1 | VCC | +5V |
| 2 | -Data 0 | Negative Data Channel 0 |
| 3 | +Data 0Positive | Data Channel 0 |
| 4 | GND | Ground |
| 5 | VCC | +5V |
| 6 | -Data 1 | Negative Data Channel 1 |
| 7 | +Data 1Positive | Data Channel 1 |
| 8 | GND | Ground |

## OPTICAL SPDIF-out

The OPTICAL connector allows you to play the audio file of SPDIF interface.

## Parallel Port

The mainboard provides a 25-pin female centronic connector as LPT. A parallel port is a standard printer port that supports Enhanced Parallel Port (EPP) and Extended Capabilities Parallel Port (ECP) mode.



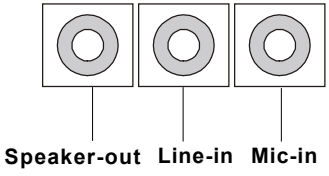

**Pin Definition**

| PIN | SIGNAL | DESCRIPTION |
|---|---|---|
| 1 | STROBE | Strobe |
| 2 | DATA0 Data0 | |
| 3 | DATA1 | Data1 |
| 4 | DATA2 | Data2 |
| 5 | DATA3 | Data3 |
| 6 | DATA4 | Data4 |
| 7 | DATA5 | Data5 |
| 8 | DATA6 | Data6 |
| 9 | DATA7 | Data7 |
| 10 | ACK# | Acknowledge |
| 11 | BUSY | Busy |
| 12 | PE | PaperEnd |
| 13 | SELECT | Select |
| 14 | AUTO FEED# | Automatic Feed |
| 15 | ERR# | Error |
| 16 | INIT# | Initialize Printer |
| 17 | SLIN# | Select In |
| 18 | GND | Ground |
| 19 | GND | Ground |
| 20 | GND | Ground |
| 21 | GND | Ground |
| 22 | GND | Ground |
| 23 | GND | Ground |
| 24 | GND | Ground |
| 25 | GND | Ground |

## Audio Port

**Speaker-out** is a connector for Speakers or Headphones. **Line In** is used for external CD player, Tape player, or other audio devices. **Mic-in** is a connector for microphones. These three ports can also be used for 5.1 channel audio output.

***NOTE:*** *When used for 5.1 channel audio output, Speaker-out is used for "left/right", Lin-in is used for "surround left/right" while Mic-in is used for "Center/LFE (Subwoofer).*



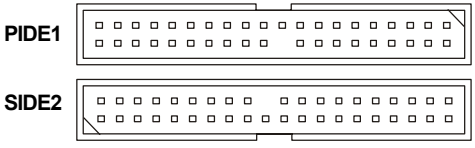
# 2.7 CONNECTORS

## IDE Connectors: PIDE1 & SIDE1

The mainboard has a 32-bit Enhanced PCI IDE and Ultra DMA 33/66/100 controller that provides PIO mode 0~4, Bus Master, and Ultra DMA/33/66/100 function. The two connectors on the mainboard allows you to connect to two IDE devices.

**IDE1** (Primary IDE Connector)
- IDE1 can only connect a HDD.

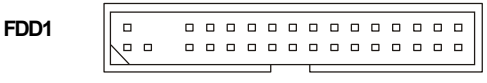
**IDE2** (Secondary IDE Connector)
- IDE2 can only connect a CD-ROM drive.




*If you install two hard disks on cable, you must configure the second drive to Slave mode by setting its jumper. Refer to the hard disk documentation supplied by hard disk vendors for jumper setting instructions.*

## FDD Connector: FDD1

The mainboard provides you with a standard floppy disk drive connector that supports 1.44M floppy disk type.



## Serial ATA RAID Connector: SATA1

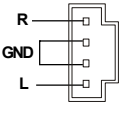
The mainboard provides the connector to connect the hard disk of Serial ATA interface. One Serial ATA cable is included in the package.


**SATA1 Pin Definition**

| Pin | Signal | Pin | Signal |
|---|---|---|---|
| 1 | GND | 2 | TXP |
| 3 | TXN | 4 | GND |
| 5 | RXN | 6 | RXP |
| 7 | GND | | |

## TV-Tuner Card Connector: CN3

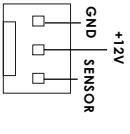
The mainboard provides the connector to connect the TV-Tuner card. You can insert the TV-Tuner card into the PCI Slot 1.



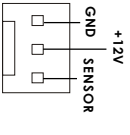

## CPU/System Fan Connectors: CPUFAN1/CPUFAN2/SYSFAN1

The CPU and System Fan connectors support system cooling fans with +12V that is controlled by PWM. When connecting the wire to the three-pin head connectors, always note that the red wire is the positive and should be connected to the +12V (that is controlled by PWM), the black wire is Ground and should be connected to GND.

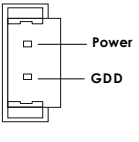
**CPUFAN1**




**CPUFAN2**



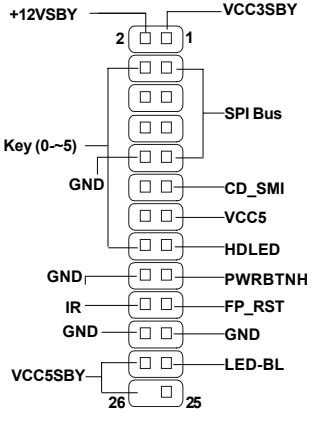

**SYSFAN1**



## Color LED Connector: LCM1

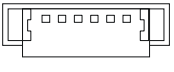
The connector is used to connect the color LED on the front panel.

**LCM1**



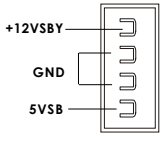

## Card Reader Connector: CR1

The mainboard provides a connector to connect the USB Card Reader (for Deluxe Model) on the Front Panel.



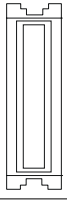
## Hi Fi Power Connector: PWR1

The mainboard provides a connector to connect the Hi Fi power.



## Modem Module Connector: MDC1 (Optional)

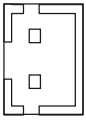
The mainboard provides the connector to connect the modem module. The modem module is directly inserted into the connector without an extra cable.



MDC1

## Radio Antenna Connector: J1

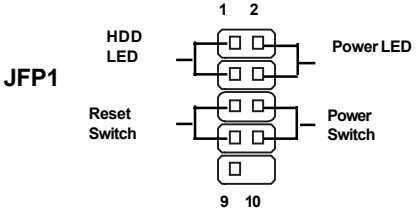
The connector allows you to connect the radio antenna.



J1

## Front Panel Power Connector: JFP1

The mainboard provides a Front Panel connector for electrical connection to the Front Panel switches and LEDs. JFP1 is compliant with Intel® Front Panel I/O Connectivity Design Guide.



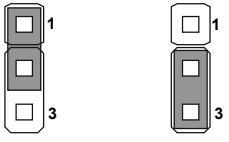

**JFP1 Pin Definition**

| PIN | SIGNAL | DESCRIPTION |
|---|---|---|
| 1 | HD_LED_P | Hard disk LED pull-up |
| 2 | FP PWR/SLP | MSG LED pull-up |
| 3 | HD_LED_N | Hard disk active LED |
| 4 | FP PWR/SLP | MSG LED pull-up |
| 5 | RST_SW_N | Reset Switch low reference pull-down to GND |
| 6 | PWR_SW_P | Power Switch high reference pull-up |
| 7 | RST_SW_P | Reset Switch high reference pull-up |
| 8 | PWR_SW_N | Power Switch low reference pull-down to GND |
| 9 | RSVD_DNU | Reserved. Do not use. |

# 2.8 JUMPER

There is a CMOS RAM on board that has a power supply from external battery to keep the data of system configuration. With the CMOS RAM, the system can automatically boot OS every time it is turned on. That battery has long life time for at least 2 years. If you want to clear the system configuration, use the JBAT1 (Clear CMOS Jumper ) to clear data. Follow the instructions below to clear the data:

**Clear CMOS Jumper: JBAT1**




**Keep Data** **Clear Data**

*You can clear CMOS by shorting 2-3 pin while the system is off. Then return to 1-2 pin position. Avoid clearing the CMOS while the system is on; it will damage the mainboard.*

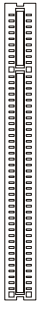
# 2.9 SLOTS

## PCI Slot

The PCI slot allows you to insert PCI card or TV Tuner card.

When adding or removing expansion cards, make sure that you unplug the power supply first. Meanwhile, read the documentation for the expansion card to make any necessary hardware or software settings

***NOTE**: You can install the OPTIONAL MS8606 card into the PCI slot to enjoy watching TV.*



**PCI 1**

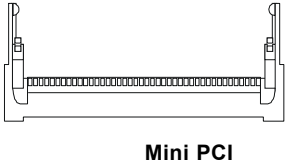
## AGP (Accelerated Graphics Port) Slot

The AGP slot allows you to insert the AGP graphics card. AGP is an interface specification designed for the throughput demands of 3D graphics. It introduces a 66MHz, 32-bit channel for the graphics controller to directly access main memory and provides three levels of throughputs: 1x (266Mbps), 2x (533Mbps) , 4x (1.07Gbps) and 8x.

**AGP Slot**

## Mini PCI Slot

The motherboard provides a mini PCI slot for connecting a mini PCI interface card.



**Mini PCI**

# 3

# Setting BIOS Function

3.1 Entering Setup
3.2 The Main Menu
3.3 Standard CMOS Features
3.4 Advanced BIOS Features
3.5 Advanced Chipset Features
3.6 Integrated Peripherals
3.7 Power Management Setup
3.8 PnP/PCI Configurations
3.9 PC Health Status
3.10 Frequency/Voltage Control
3.11 Load Default Setting
3.12 Set Supervisor/User Password

Chapter 3

# 3.1 ENTERING SETUP

Power on the computer and the system will start POST (Power On Self Test) process. When the message below appears on the screen, press <DEL> key to enter Setup.

```
Press DEL to enter SETUP
```

If the message disappears before you respond and you still wish to enter Setup, restart the system by turning it OFF and On or pressing the RESET button. You may also restart the system by simultaneously pressing <Ctrl>, <Alt>, and <Delete> keys.

## Control Keys

| | |
|---|---|
| <↑> | Move to the previous item |
| <↓> | Move to the next item |
| <←> | Move to the item in the left hand |
| <→> | Move to the item in the right hand |
| <Enter> | Select the item |
| <Esc> | Jumps to the Exit menu or returns to the main menu from a submenu |
| <+/PU> | Increase the numeric value or make changes |
| <-/PD> | Decrease the numeric value or make changes |
| <F1> | General help, only for Status Page Setup Menu and Option Page Setup Menu |
| <F5> | Restore the previous CMOS value from CMOS, only for Option Page Setup Menu |
| <F7> | Load Optimized defaults |
| <F10> | Save all the CMOS changes and exit |

## Getting Help

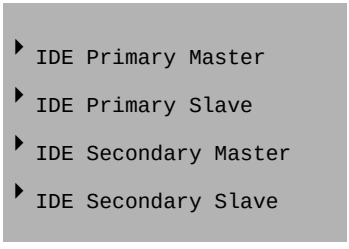
After entering the Setup menu, the first menu you will see is the Main Menu.

## Main Menu

The main menu lists the setup functions you can make changes to. You can use the control keys ( ↑↓ ) to select the item. The on-line description of the highlighted setup function is displayed at the bottom of the screen.

## Sub-Menu

If you find a right pointer symbol (as shown in the right view) appears to the left of certain fields that means a sub-menu containing additional options can be launched from this field. You can use control keys (↑↓ ) to highlight the field and press <Enter> to call up the sub-menu. Then you can use the control keys to enter values and move from field to field within a sub-menu. If you want to return to the main menu, just press <Esc >.

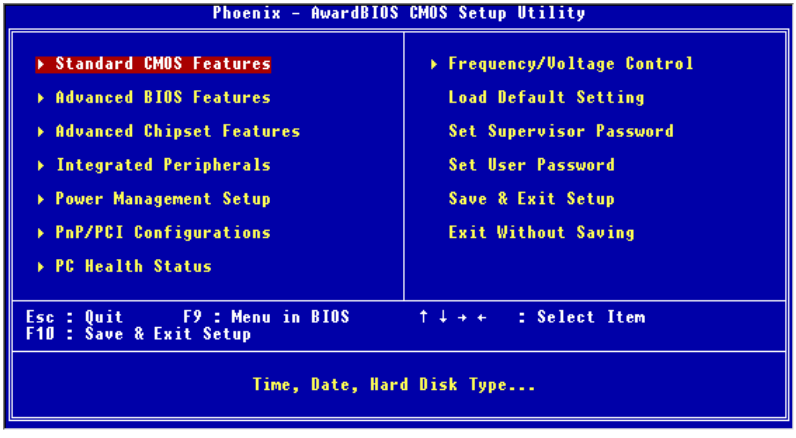



## General Help <F1>

The BIOS setup program provides a General Help screen. You can call up this screen from any menu by simply pressing <F1>. The Help screen lists the appropriate keys to use and the possible selections for the highlighted item. Press <Esc> to exit the Help screen.

# 3.2 THE MAIN MENU

Once you enter Phoenix-Award® BIOS CMOS Setup Utility, the Main Menu (Figure 1) will appear on the screen. The Main Menu allows you to select from eleven setup functions and two exit choices. Use arrow keys to select among the items and press <Enter> to accept or enter the sub-menu.




**Standard CMOS Features**

Use this menu for basic system configurations, such as time, date etc.

**Advanced BIOS Features**

Use this menu to setup the items of AWARD® special enhanced features.

**Advanced Chipset Features**

Use this menu to change the values in the chipset registers and optimize your system's performance.

**Integrated Peripherals**

Use this menu to specify your settings for integrated peripherals.

**Power Management Setup**
Use this menu to specify your settings for power management.

**PnP/PCI Configurations**
This entry appears if your system supports PnP/PCI.

**PC Health Status**
This entry shows your PC health status.

**Frequency/Voltage Control**
Use this menu to specify your settings for frequency/voltage control.

**Load Default Setting**
Use this menu to load factory default settings into the BIOS for stable system performance operations.

**Set Supervisor Password**
Use this menu to set Supervisor Password.

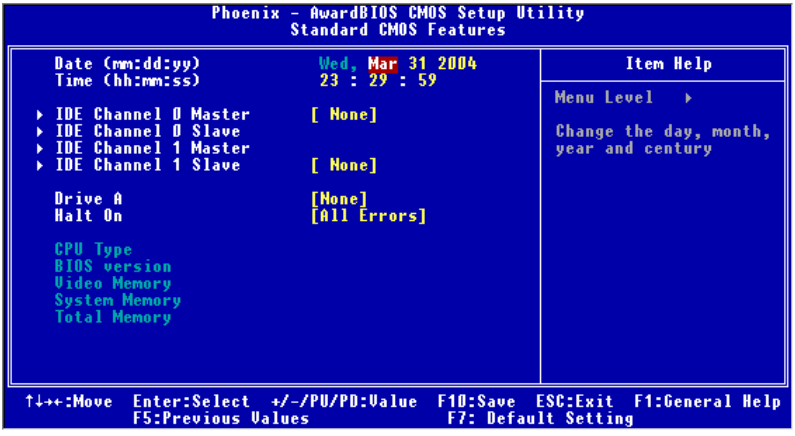
**Set User Password**
Use this menu to set User Password.

**Save & Exit Setup**
Save changes to CMOS and exit setup.

**Exit Without Saving**
Abandon all changes and exit setup.

# 3.3 STANDARD CMOS FEATURES

The items in Standard CMOS Features Menu are divided into 8 categories. Each category includes no, one or more than one setup items. Use the arrow keys to highlight the item and then use the <PgUp> or <PgDn> keys to select the value you want in each item.




### Date

This allows you to set the system to the date that you want (usually the current date). The format is <day><month> <date> <year>.

### Time

This allows you to set the system time that you want (usually the current time). The time format is <hour> <minute> <second>.

### IDE Channel 0/Channel 1 Master/Slave

Press PgUp/<+> or PgDn/<-> to select [Manual], [None] or [Auto] type. Note that the specifications of your drive must match with the drive table. The hard disk will not work properly if you enter improper information for this category. If your hard disk drive type is not matched or listed, you can use [Manual] to define your own drive type manually.

If you select [Manual], related information is asked to be entered to the following items. Enter the information directly from the keyboard. This information should be provided in the documentation from your hard disk vendor or the system manufacturer.

| | |
|---|---|
| **Access Mode** | The settings are CHS, LBA, Large, Auto. |
| **Capacity** | The formatted size of the storage device. |
| **Cylinder** | Number of cylinders. |
| **Head** | Number of heads. |
| **Precomp** | Write precompensation. |
| **Landing Zone** | Cylinder location of the landing zone. |
| **Sector** | Number of sectors. |

**Drive A**

This item allows you to set the type of floppy drives installed.

**Halt On**

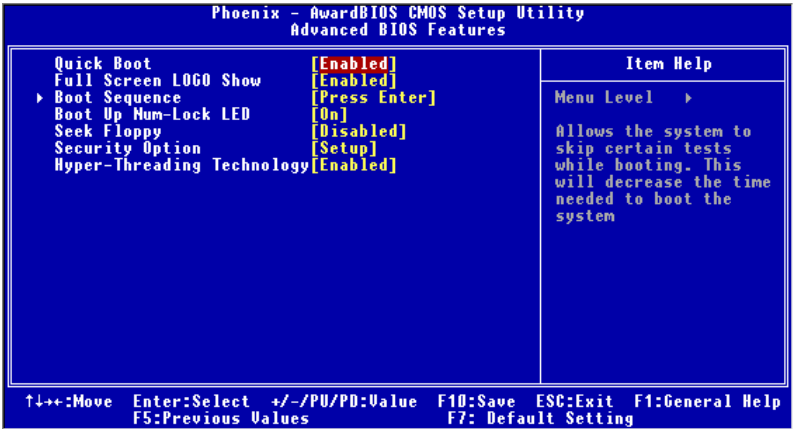
The setting determines whether the system will stop if an error is detected at boot. Available options are:

| | |
|---|---|
| [All Errors] | The system stops when any error is detected. |
| [No Errors] | The system doesn't stop for any detected error. |
| [All, But Keyboard] | The system doesn't stop for a keyboard error. |
| [All, But Diskette] | The system doesn't stop for a disk error. |
| [All, But Disk/Key] | The system doesn't stop for either a disk or a key |

**CPU Type/BIOS Version/Video Memory/System Memory/Total Memory**

The items show the CPU type, BIOS version and memory status of your system (read only).

# 3.4 ADVANCED BIOS FEATURES




### Quick Boot

Setting the item to [Enabled] allows the system to skip certain tests while booting. This will decrease the time needed to boot the system. Available options: [Enabled], [Disabled].

### Full Screen LOGO Show

This item enables you to show the company logo on the bootup screen. Settings are:

| | |
|---|---|
| [Enabled] | Shows a still image (logo) on the full screen at boot. |
| [Disabled] | Shows the POST messages at boot. |

### Boot Sequence

Press <Enter> to enter the sub-menu. Then you may use the arrow keys to select the desired device, then press <+>, <-> or <PageUp>, <PageDown> key to move it up/down in this hard disk boot priority list.

#### Hard Disk Boot Priority

Press [Enter] to enter a sub menu which shows every current hard drive installed. Use [PageUp] or [PageDown] key to select the first boot hard disk.

**CD-ROM Boot Priority**

Press [Enter] to enter a sub menu which shows every current CD-ROM installed. Use [PageUp] or [PageDown] key to select the first boot CD-ROM.

**1st/2nd/3rd Boot Device**

The items allow you to set the sequence of boot devices where BIOS attempts to load the disk operating system.

**Boot Other Device**

Setting the option to [Enabled] allows the system to try to boot from other device if the system fails to boot from the 1st/2nd/3rd boot device.

**Boot Up Num-Lock LED**

This setting is to set the Num Lock status when the system is powered on. Setting to [On] will turn on the Num Lock key when the system is powered on. Setting to [Off] will allow users to use the arrow keys on the numeric keypad. Setting options: [On], [Off].

**Seek Floppy**

Setting to [Enabled] will make BIOS seek floppy drive A: before booting the system. Settings: [Enabled], [Disabled].

**Security Option**

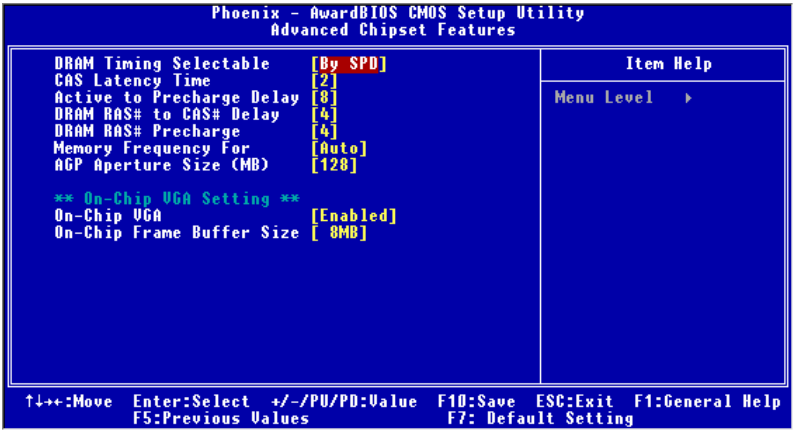
This specifies the type of BIOS password protection that is implemented. Settings are described below:

| Option | Description |
|---|---|
| [Setup] | The password prompt appears only when end users try to run Setup. |
| [System] | A password prompt appears every time when the computer is powered on or when end users try to run Setup. |

### Hyper-Threading Technology

The processor uses Hyper-Threading technology to increase transaction rates and reduces end-user response times. The technology treats the two cores inside the processor as two logical processors that can execute instructions simultaneously. In this way, the system performance is highly improved. If you disable the function, the processor will use only one core to execute the instructions. Settings: [Enabled], [Disabled].

# 3.5 ADVANCED CHIPSET FEATURES




***NOTE**: Change these settings only if you are familiar with the chipset.*

**DRAM Timing Selectable**

Selects whether DRAM timing is controlled by the SPD (Serial Presence Detect) EEPROM on the DRAM module. Setting to [By SPD] enables DRAM timings to be determined by BIOS based on the configurations on the SPD. Selecting [Manual] allows users to configure the DRAM timings manually.

**CAS Latency Time**

This controls the timing delay (in clock cycles) before SDRAM starts a read command after receiving it. Settings: [2], [2.5], [3] (clocks). [2] (clocks) increases the system performance the most while [3] (clocks) provides the most stable performance.

**Active to Precharge Delay**

The field specifies the idle cycles before precharging an idle bank. Settings: [8], [7], [6], [5] (clocks).

**DRAM RAS# to CAS# Delay**

This field allows you to set the number of cycles for a timing delay between the CAS and RAS strobe signals, used when DRAM is written to, read from or refreshed. Fast speed offers faster performance while slow speed offers more stable performance. Settings: [4], [3], [2] (clocks).

**DRAM RAS# Precharge**

This item controls the number of cycles for Row Address Strobe (RAS) to be allowed to precharge. If insufficient time is allowed for the RAS to accumulate its charge before DRAM refresh, refresh may be incomplete and DRAM may fail to retain data. This item applies only when synchronous DRAM is installed in the system. Available settings: [4], [3], [2] (clocks).

**Memory Frequency For**

Use this item to configure the clock frequency of the installed DRAMs. Setting options: [Auto], [DDR266], [DDR333], [DDR320], [DDR400].

**AGP Aperture Size (MB)**

This setting controls just how much system RAM can be allocated to AGP for video purposes. The aperture is a portion of the PCI memory address range dedicated to graphics memory address space. Host cycles that hit the aperture range are forwarded to the AGP without any translation. The option allows the selection of an aperture size of [4MB], [8MB], [16MB], [32MB], [64MB], [128MB], and [256MB].

****On-Chip VGA Setting****

The following items allow you to configure the settings about On-Chip VGA.

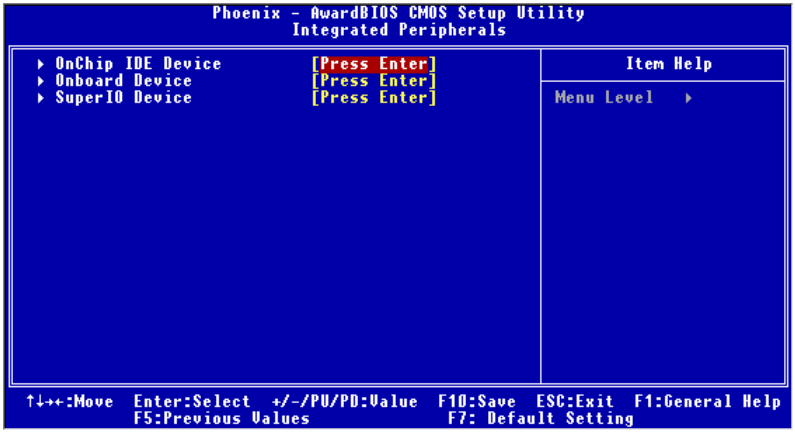
**On-Chip VGA**

This setting determines whether the system RAM can be allocated to on-chip video controller for video purposes. When setting to [Enabled], up to 128MB system RAM will be allocated to on-chip video controller. Settings: [Disabled], [Enabled].

**On-Chip Frame Buffer Size**

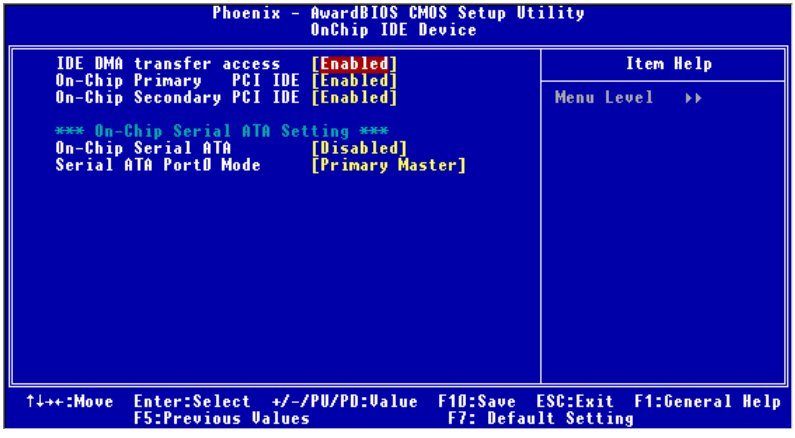
Frame Buffer is the video memory that stores data for video display (frame). This field is used to determine the memory size for Frame Buffer. Larger frame buffer size increases video performance. Settings: [1M], [8M], [16M].

# 3.6 INTEGRATED PERIPHERALS




### ▶ OnChip IDE Device

Press <Enter> to enter the sub-menu and the following screen appears:




**IDE DMA Transfer Access**

This item is used to enable or disable the DMA transfer function of the IDE Hard Drive. The settings are: [Enabled], [Disabled].

**On-Chip Primary/Secondary PCI IDE**

The chipset contains a PCI IDE interface with support for two IDE channels. Select [Enabled] to activate the IDE interface. Select [Disabled] to deactivate this interface.

****On-Chip Serial ATA Setting****

**On-Chip Serial ATA**

This setting is used to specify the SATA controller. Settings: [Disable], [Auto], [Legacy Mode], [Native Mode]. If [Legacy Mode] is selected, PATA and SATA will be combined. If [Native Mode] is selected, PATA and SATA will both be enabled. If [Auto] is selected, PATA and SATA will be arranged by BIOS, and you will be able to see the IDE Device status listed in **Standard CMOS Features**.

**Serial ATA Port 0 Mode**

When **On-Chip Serial ATA** is set to [Legacy Mode], setting options will show as follows:

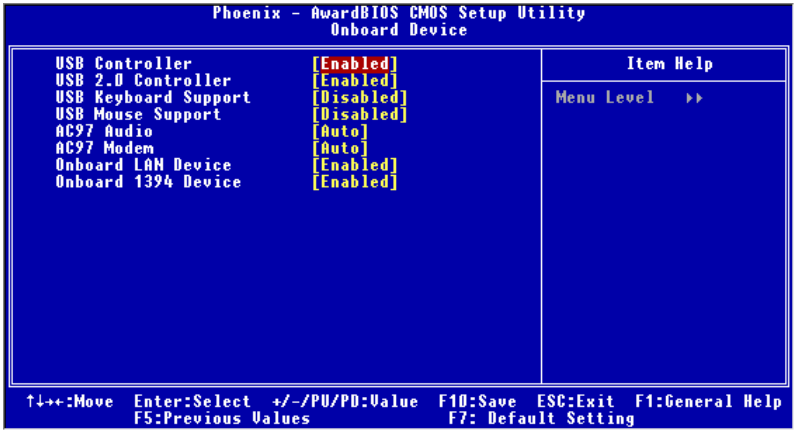
1. [Primary Master]
   Serial ATA Port 0 will be set to Primary Master.
2. [Primary Slave]
   Serial ATA Port 0 will be set to Primary Slave.
3. [Secondary Master]
   Serial ATA Port 0 will be set to Secondary Master.
4. [Secondary Slave]
   Serial ATA Port 0 will be set to Secondary Slave.

When **On-Chip Serial ATA** is set to [Native Mode], setting options will show as follows:

1. [SATA1 Master]
   Serial ATA Port 0 will be set to Native Mode Master.
2. [SATA1 Slave]
   Serial ATA Port 0 will be set to Native Mode Slave.

### ▶ Onboard Device

Press <Enter> to enter the sub-menu and the following screen appears:




**USB Controller**

Select [Enabled] if your system contains a Universal Serial Bus (USB) controller and you have USB peripherals.

**USB 2.0 Controller**

This setting is used to enable/disable the onboard USB2.0 controller. This setting works only when the operating system installed supports USB2.0 driver, such as Windows 2000/XP/ME. Setting options: [Disabled], [Enabled].

**USB Keyboard/Mouse Support**

Select [Enabled] if you need to use a USB keyboard/mouse in the operating system that does not support or have any USB keyboard/mouse driver installed, such as DOS and SCO Unix. Setting options: [Enabled], [Disabled].

**AC97 Audio**

[Auto] allows the motherboard's BIOS to detect whether you're using any audio device. If so, the onboard audio controller will be enabled. If not, the onboard audio controller will be disabled. If you want to use different controller cards to

connect audio connectors, set the field to [Disabled]. Setting options: [Disabled], [Auto].

### AC97 Modem

[Auto] allows the mainboard to detect whether a modem is used. If a modem is detected, the onboard AC'97 modem controller will be enabled; if not, it is disabled. Disable the controller if you want to use other controller cards to connect a modem. Settings: [Auto], [Disabled].

### Onboard LAN Device

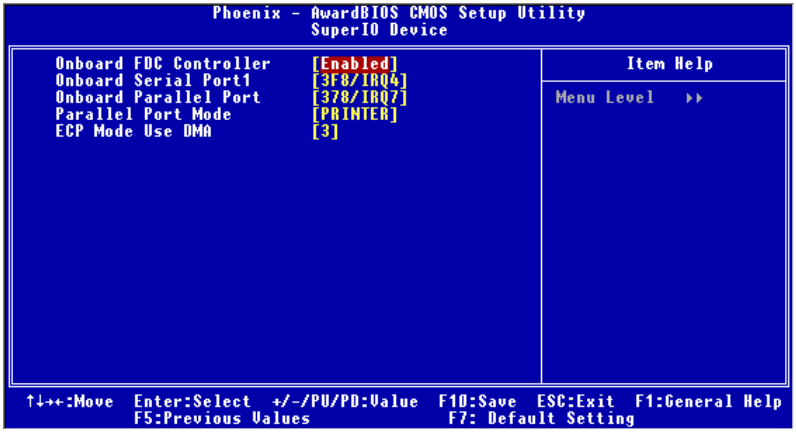
This setting controls the onboard LAN device. Setting options: [Disabled], [Enabled].

### Onboard 1394 Device

This setting controls the onboard 1394 device. Setting options: [Disabled], [Enabled].

### ▶ SuperIO Device

Press <Enter> to enter the sub-menu and the following screen appears:



**Onboard FDC Controller**

Select [Enabled] if your system has a floppy disk controller (FDD) installed on the system board and you wish to use it. If you install add-on FDC or the system has no floppy drive, select [Disabled] in this field. The settings are: [Enabled] and [Disabled].

**Onboard Serial Port 1**

These items specify the base I/O port address and IRQ for the onboard Serial Port A (COM A). Selecting [Auto] allows BIOS to automatically determine the correct base I/O port address. Settings: [Disabled], [3F8/IRQ4], [2F8/IRQ3], [3E8/IRQ4], [2E8/IRQ3], [Auto].

**Onboard Parallel Port**

This specifies the I/O port address and IRQ of the onboard parallel port. Settings: [378/IRQ7], [278/IRQ5], [3BC/IRQ7], [Disabled].

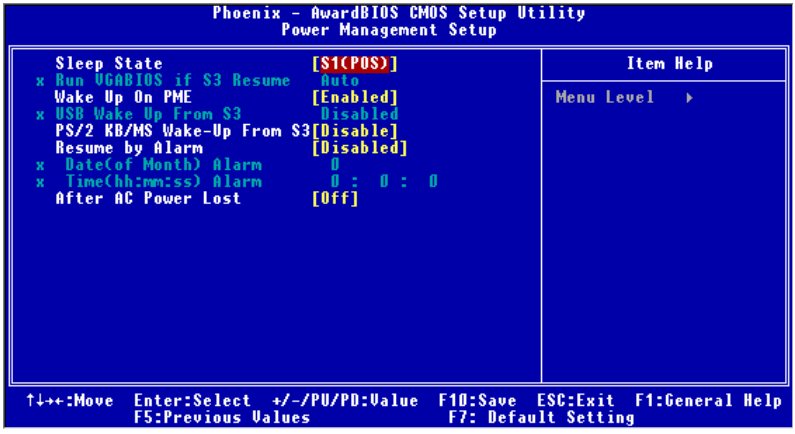
**Parallel Port Mode**

Select an operating mode for the onboard parallel (printer) port.
*SPP*: Standard Parallel Port
*EPP*: Enhanced Parallel Port
*ECP*: Extended Capability Port
Options: [SPP], [EPP1.9+SPP], [ECP], [EPP1.9+ECP], [PRINTER], [EPP1.7+SPP], [EPP1.7+ECP].

**ECP Mode Use DMA**

The ECP mode has to use the DMA channel, so choose the onboard parallel port with the ECP feature. After selecting it, the following message will appear: "ECP Mode Use DMA." At this time, the user can choose between DMA channel [3] or [1].

# 3.7 POWER MANAGEMENT SETUP




**Sleep State**

This item specifies the power saving mode for ACPI function. If your operating system supports ACPI, such as Windows 98SE, Windows ME and Windows 2000, you can choose to enter the Standby mode in S1(POS) or S3(STR) fashion through the setting of this field. Options are:

| | |
|---|---|
| [S1(POS)] | The S1 sleep mode is a low power state. In this state, no system context (CPU or chipset) is lost and hardware main tains all system context. |
| [S3(STR)] | The S3 sleep mode is a power-down state in which power is supplied only to essential components such as main memory and wake-capable devices and all system context is saved to main memory. The information stored in memory will be used to restore the PC to the previous state when an “wake up” event occurs. |
| [Auto] | BIOS determines the mode automatically. |

**Run VGABIOS if S3 Resume**

When **Sleep State** is set to [S3] or [Auto], users can select the options in this field. Selecting [Yes] allows BIOS to call VGABIOS to initializet he VGA card when system wakes up (resumes) from S3 sleep state. The system resume time is shortened when you disable the function, but system will need an AGP driver to initialize the VGA card. Therefore, if the AGP driver of the card does not support the initialization feature, the display may work abnormally or not function after resuming form S3. Options: [Auto], [Yes], [No].

**Wake Up On PME**

When set to [Enabled], the feature allows your system to be awakened from the power saving modes through any event on PME (Power Management Event). Settings: [Enabled], [Disabled].

**USB Wake-Up From S3**

This item allows the USB device to wake up the system from S3 sleep state. Settings: [Enabled], [Disabled].

**PS/2 KB/MS Wake-Up from S3**

This setting allows you to enter "Any Key" (max. 8 numbers) to wake up the system from S3 state. Settings are: [Hot Key] and [Disable].

**Resume By Alarm**

The field is used to enable or disable the feature of booting up the system on a scheduled time/date.

**Date(of Month) Alarm**

The field specifies the date for **Resume By Alarm**. Settings: [0]~[31].

**Time(hh:mm:ss) Alarm**

The field specifies the time for **Resume By Alarm**. Format is <hour> <minute><second>.

**After AC Power Lost**

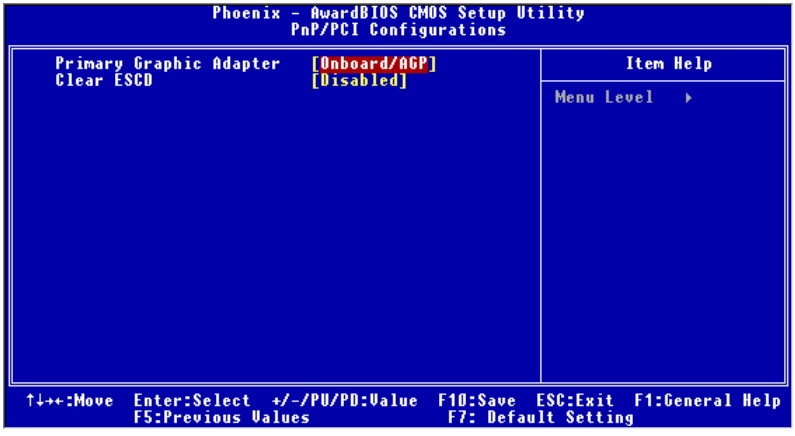
This setting specifies whether your system will reboot after a power failure or interrupt occurs. Available settings are:

[Off] Leaves the computer in the power off state.

[On] Leaves the computer in the power on state.

# 3.8 PNP/PCI CONFIGURATIONS

This section describes configuring the PCI bus system and PnP (Plug & Play) feature. PCI, or **P**eripheral **C**omponent **I**nterconnect, is a system which allows I/O devices to operate at speeds nearing the speed the CPU itself uses when communicating with its special components. This section covers some very technical items and it is strongly recommended that only experienced users should make any changes to the default settings.




**Clear ESCD**

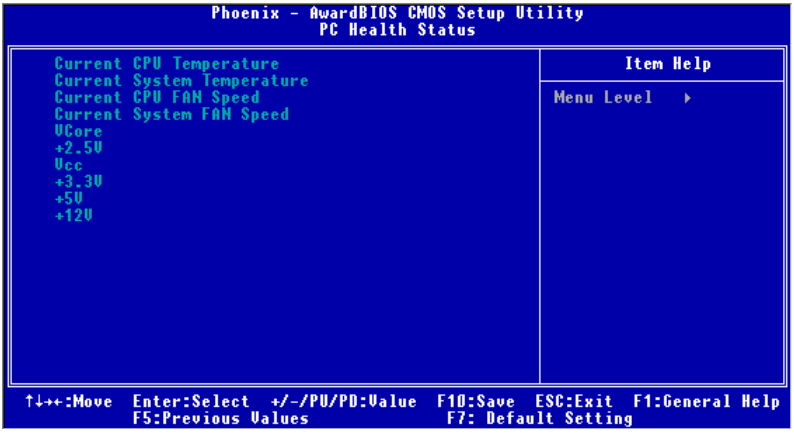
Normally, you leave this field [Disabled]. Select [Enabled] to reset Extended System Configuration Data (ESCD) when you exit Setup if you have installed a new add-on and the system reconfiguration has caused such a serious conflict that the operating system cannot boot.

**Primary Graphic Adaptor**

This setting specifies which VGA card is your primary graphics adapter. Setting options are:

| | |
|---|---|
| [Onboard/AGP] | The system initializes the installed AGP card first. If the AGP card is not available, it will initialize the PCI VGA card. |
| [PCI Slot] | The system initialize the installed PCI VGA card first. If the PCI VGA card is not available, it will initialize the AGP card. |

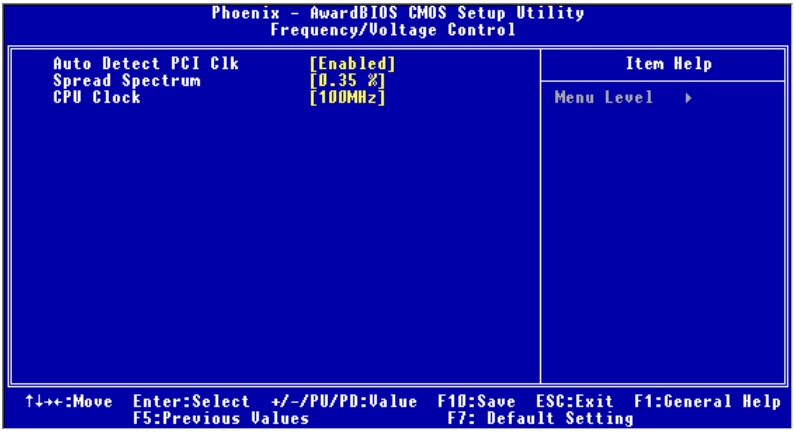
# 3.9 PC HEALTH STATUS




**Current CPU/System Temperature, Current CPU/System FAN Speed, Vcore, +2.5V, Vcc, +3.3V, +5V, +12V,**

These items display the current status of all of the monitored hardware devices/ components such as CPU voltages, temperatures and all fans' speeds.

# 3.10 FREQUENCY/VOLTAGE CONTROL




### Auto Detect PCI Clk

This option allows you to enable/disable the feature of auto detecting the clock frequency of the installed PCI bus. The settings are: [Enabled], [Disabled].

### Spread Spectrum

When the motherboard's clock generator pulses, the extreme values (spikes) of the pulses creates EMI (Electromagnetic Interference). The Spread Spectrum function reduces the EMI generated by modulating the pulses so that the spikes of the pulses are reduced to flatter curves. If you do not have any EMI problem, leave the setting at [Disable] for optimal system stability and performance. But if you are plagued by EMI, set to [Enabled] for EMI reduction. Remember to disable Spread Spectrum if you are overclocking because even a slight jitter can introduce a temporary boost in clock speed which may just cause your overclocked processor to lock up.

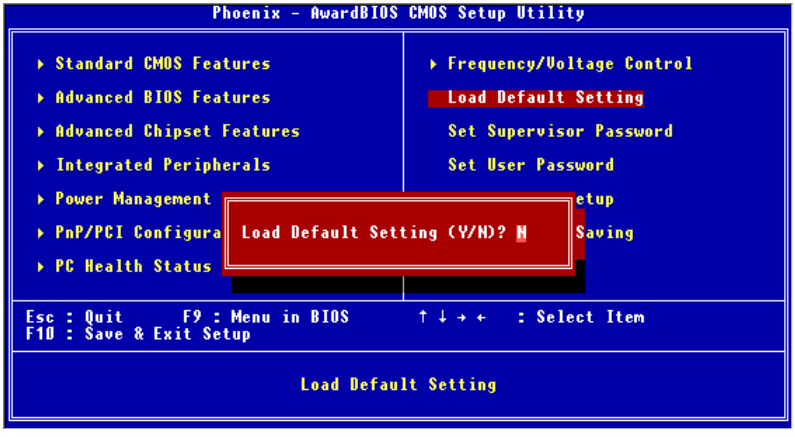
### CPU Clock

This item specifies the clock frequency of CPU host bus (FSB), AGP (3V66) and

PCI bus. It provides a method for end users to overclock the processor. Setting options: Give a DEC value by entering a number between maximum [233 MHz] to minimum [100 MHz].

# 3.11 LOAD DEFAULT SETTING

The default setting is the default value set by the BIOS vendor for stable system performance. When you select Load BIOS Setup Defaults, a message as below appears:




Press [Y] to load the default values for the most stable system performance.

# 3.12 SET SUPERVISOR/USER PASSWORD

When you select this function, a message as below will appear on the screen:


Type the password, up to six characters in length, and press <Enter>. The password typed now will replace any previously set password from CMOS memory. You will be prompted to confirm the password. Retype the password and press <Enter>. You may also press <Esc> to abort the selection and not enter a password.

To clear a set password, just press <Enter> when you are prompted to enter the password. A message will show up confirming the password will be disabled. Once the password is disabled, the system will boot and you can enter Setup without entering any password.

When a password has been set, you will be prompted to enter it every time you try to enter Setup. This prevents an unauthorized person from changing any part of your system configuration.

Additionally, when a password is enabled, you can also have Award BIOS to request a password each time the system is booted. This would prevent unauthorized use of your computer. The setting to determine when the password prompt is required is the **Security Option** of the ***ADVANCED BIOS FEATURES*** menu. If the **Security Option** is set to [System], the password is required both at boot and at entry to Setup. If set to [Setup], password prompt only occurs when you try to enter Setup.

**MSI Reminds You...**

***About Supervisor Password & User Password:***

| | |
|---|---|
| *Supervisor password:* | *Can enter and change the settings of the setup menu.* |
| *User password:* | *Can only enter but do not have the right to change the settings of the setup menu.* |

# 4

# Using Audio Function


**4.1 Control Panel**

**4.2 Remote Control**

**4.3 AC Power on**

**4.4 Playing CD/MP3 in Hi-Fi Mode**

**4.5 Playing FM/AM in Hi-Fi Mode**

**4.6 Using Audio Function in Hi-Fi Mode**

**4.7 Using Audio Function in PC Mode**

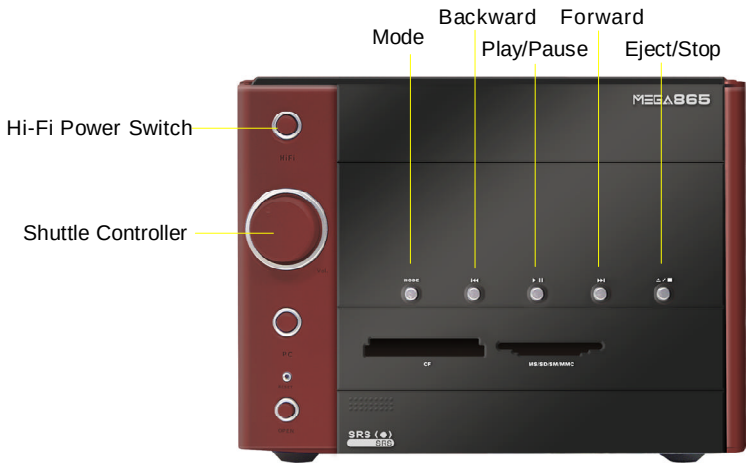
# Introduction

The MEGA 865 is featured with audio function. There are two ways to use audio function: **in PC mode**, **in Hi-Fi mode**. As the MEGA 865 is shipped out in barebone, you must install the necessary components (such as HDD, CPU, RAM...) before using audio function in PC mode. However, there is no limit to use audio function in Hi-Fi mode, although the system is not set up completely.

You can use **control panel** or **remote control** to select the audio function in Hi-Fi mode. See 4.1 and 4.2 for information on control panel and remote control.

In this chapter, we will tell you how to use audio function in Hi-Fi and PC mode. The color LED pictures are used to provide the information step by step.

# 4.1 CONTROL PANEL



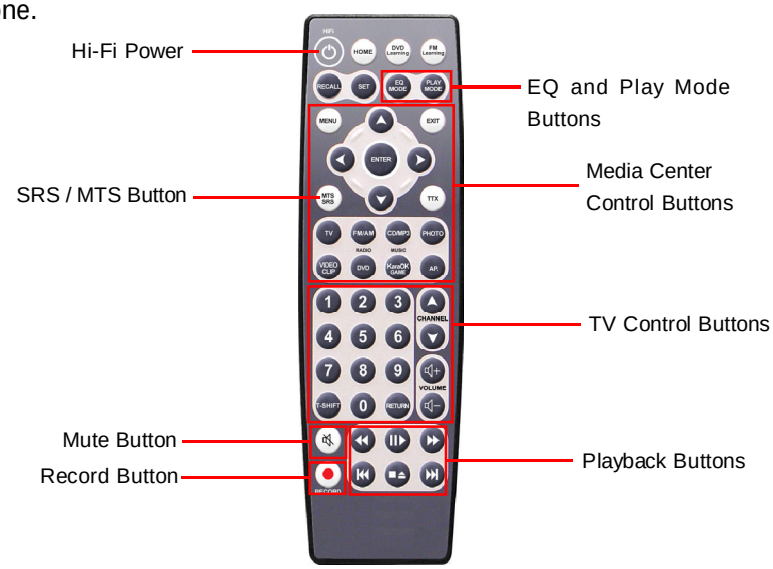

Deluxe model

| | | |
|---|---|---|
| HiFi | HiFi Power | Start the audio function. |
| MODE | Mode | Choose the audio mode (CD/MP3, FM, AM) |
| ⏏ / ■ | Eject/Stop | Eject the CD/MP3 or stop the play. In Hi-Fi mode, you can press this button to recall memory sub-mode. |
| ⏭ | Forward | Forward the channel search in FM/AM mode or forward the music selection in MP3 mode. |
| ⏯ | Play/Pause | Play or pause the play in CD/MP3, AM, FM modes. In Hi-Fi mode, you can press this button to store the memory station. |
| ⏮ | Backward | Backward the channel search in FM/AM mode or backward the music selection in CD/MP3 mode. |
| ◯ | Shuttle | a. Adjust volume b. Set EQ/Play mode<br>c. Set SRS and timer |

Chapter 4

# 4.2 REMOTE CONTROL

The slim and subtle remote control embeds more than 30 buttons for your quick access. In Hi-Fi mode, you can control the play and EQ mode with one touch. Even in Media Center (PC mode), you can still fully control the multimedia applications with the remote control. Just left your mouse and keyboard alone.




| | |
|---|---|
| Hi-Fi Power | Press this button to activate the Hi-Fi stereo |
| SRS / MTS Button | Press this button to ON/OFF the SRS / MTS |
| Mute Button | Press this button to mute or resume the volume |
| Record Button | In PC mode, press this button to instant record the broadcast, TV program and music. |
| EQ and Play Mode Buttons | You can set the EQ (Normal, POP, Classic, Jazz) and Play (Normal, Random, Repeat, Repeat Disc) mode as you want. |
| Media Center Control Buttons | You can control the Media Center with these buttons |
| TV Control Buttons | Use these buttons to control TV as you do in the living room |
| Playback Buttons | These buttons allow you to eject/stop, forward, play/pause, backward and skip when playing CD, recorded music or MP3. |

# 4.3 AC POWER ON

**- Plug in the power cord**

After plugging in the power cord. You will see the panel (Color LED) items FLASH 3 times.


**- Set Timer**

Then you can adjust time by shuttle. You will see timer 00:00 flash.


Turn the shuttle clockwise to adjust minute.


Turn the shuttle counterclockwise to adjust hour. After adjusting the minute and hour, press the shuttle to set the timer. The second will be reset to zero while setting the timer.

Chapter 4

# 4.4 PLAYING CD/MP3 IN HI-FI MODE

**- Select CD/MP3**

Press Hi-Fi button to start the audio function. Press MODE on the Control Panel to select CD/MP3 mode or press CD/MP3 on the remote control to play CD/MP3.


If there is no CD in the tray or CD is broken, the Color LED shows “NO disc”. Press the Eject/Stop button to open the disc tray and put CD/MP3 in.


If the disc in the tray is CD, the Color LED shows CD. If the disc in the tray is MP3, the Color LED shows MP3.


**- Play music**

Press the “Play” button to play the music. The icon  will run a circle.


The number “03” on the left means the third song. The number “03” on the right means minute. The number “14” means second.

**- Pause Music**

Press “Play/Pause” button to pause the music.


**- Play Next Song**

Press the “Forward” button to play the next song.


**- Replay the song**

Press “Backward” button once to re-play the song.


**- Replay previous song**

Press the “Backward” button twice (in 2 seconds) to play the previous song (After 2 seconds, it replay the song).


**- Eject/Stop**

Press the “Eject/Stop” button once to stop the music or to eject .

**- Adjusting volume**

Turn the shuttle clockwise to turn the volume up and counterclockwise to turn the volume down.


**- Set Play Sub-Mode**

Press the shuttle once to set the Play Sub-Mode (NORMAL, RANDOM and REPEAT DISC)



: Allows you to play the CD in normal selection.


: Allows you to play the CD at random.


: Allows you to repeat the current title.


: Allows you to repeat the whole disc.

Turn the shuttle to choose Play Sub-Mode. The item you choose will flash and the others are on. Wait for 5 seconds to set the Play Sub-Mode and go back to volume mode. You can also press the shuttle to set it and change to the EQ Sub-Mode at the same time.

***NOTE***: You can also press the "PLAY MODE" button on the remote control to set the Sub-Mode.

Press the shuttle twice (if you want to skip the Play Sub-Mode) to set the EQ Sub-Mode (NORMAL, POP, CLASSIC, JAZZ).

**- Set EQ Sub-Mode**

Turn the shuttle to choose EQ Sub-Mode. The item you choose will flash and the others are on. Wait for 5 seconds to set the EQ Sub-Mode and go back to volume mode. You can also press the shuttle to set it and change to the Timer Sub-Mode at the same time.


: To play the CD/MP3 in Normal mode.


: To play the CD/MP3 in POP mode.


: To play the CD/MP3 in Classic mode.


: To play the CD/MP3 in Jazz mode.

***NOTE**: You can also press the "EQ MODE" button on the remote control to set it.*

Press the shuttle thrice (if you want to skip Play and EQ sub-modes) to set the Timer sub-mode. The operation of setting is the same as AC power on. After that, it changes to the Volume sub-mode. The Color LED shows .


**- Turn on SRS**

Press the shuttle four times to turn on SRS. You can also press the MTS button on the remote control to turn on SRS.

Chapter 4

# 4.5 PLAYING FM/AM IN HI-FI MODE

**- Select AM/FM**

Press the "MODE" button on the Control Panel to set AM/FM mode or press AM/FM button on the Remote Control to switch to AM or FM station.


**- Next Available Station**

Press the "Forward" button to jump to the next available station.


**- Previous Available Station**

Press the "Backward" button to jump to the previous available station.


**- Memory Station**

Press the "mem.set (Play/Pause)" button to store the memory station and turn the shuttle to choose the spot you want to save. Press the shuttle to set it.

### - Adjusting Volume

Turn the shuttle to adjust the volume (3 steps).


### - Recall Memory Station

Press the “Eject/Stop” once to recall the memory sub-mode and turn the shuttle to choose the number of spot (1-6) to play.


### - Set EQ Sub-Mode

Press the shuttle once into the “EQ” sub-mode. Turn the shuttle to choose the sub-mode. The operation is the same as in CD/MP3 mode.


### - Set Timer

Press the shuttle twice to set the Timer sub-mode (operation is the same as in AC power on). After you set the hour and minute, it changes to the volume sub-mode. The Color LED shows **Set Timer**.


***NOTE**: Press the shuttle thrice or press the MTS button on the remote control to turn the SRS on.*

# 4.6 USING AUDIO FUNCTION IN HI-FI MODE

## Radio Mode

You can use the Remote Control or Front Panel to control the audio function.

### Remote Control Function

1. Press “Hi-Fi” button to turn on/off radio.
2. Press “FM/AM” button to listen to radio.
3. Press “Mute” button to mute the volume.
4. Press “Vol up/down” button to adjust volume.
5. Press “Forward/Backward” button to get an available station.


<Setting Memory Station>

a. Get an available station.

b. Press “mem.set”.

c. Use “Forward/Backward” button to choose the station number you want to store.

d. Press “mem.set” again.

<Calling Memory Station>

a. Press “Memory”.

b. Use “Forward/Backward” button to choose the memory station.

<Reset Memory Station>

a. Use “Forward/Backward” button to choose the NEW station number.

b. Press “mem.set” to reset the station.

**Front Panel Function**

1. Press “Hi-Fi” button to turn on/off radio.
2. Press “Mode” button to listen to radio.
3. Turn “Shuttle” to adjust the volume.
4. Press “Forward/Backward” button to get an available station.

***Memory Station***

*The shuttle is not allowed to set the memory station as in Hi-Fi mode. Use the “mem.set” button on the remote control to set the memory station.*

## CD/MP3 Mode

You can use the Remote Control or Front Panel to control the audio function.

**Remote Control Function**

1. Press “Hi-Fi” button to turn on/off CD/MP3.
2. Press “FM/AM/CDMP3” button to select the mode you want.
3. Press “Mute” button to mute the volume.
4. Press “Vol up/down” button to adjust volume.
5. Press “Forward/Backward” button to get the next/last song.
6. Press “Play/Pause” button to play/pause the song.
7. Press “Eject” button to eject/retrieve the tray.

***Memory Station***

*The “Eject” button is not allowed to recall the memory station as in Hi-Fi mode. It can only be used to eject or retrieve the tray.*

**Front Panel Function**

1. Press “Hi-Fi” button to turn on/off CD/MP3.
2. Press “FM/AM/CDMP3” button to select the mode you want.
3. Turn “Shuttle” to adjust the volume.
4. Press “Forward/Backward” button to get an available station.
6. Press “Play/Pause” button to play/pause the song.
7. Press “Eject” button to eject/retrieve the tray.

***Memory Station***

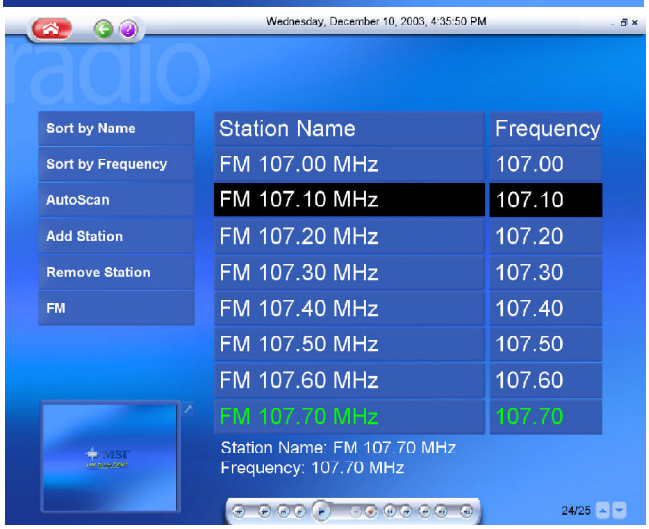
*The “Eject” button is not allowed to recall the memory station as in Hi-Fi mode. It can only be used to eject or retrieve the tray.*

# 4.7 USING AUDIO FUNCTION IN PC MODE

To listen to the play of CD/MP3 or radio in PC mode, you can use the Media Center Deluxe III.

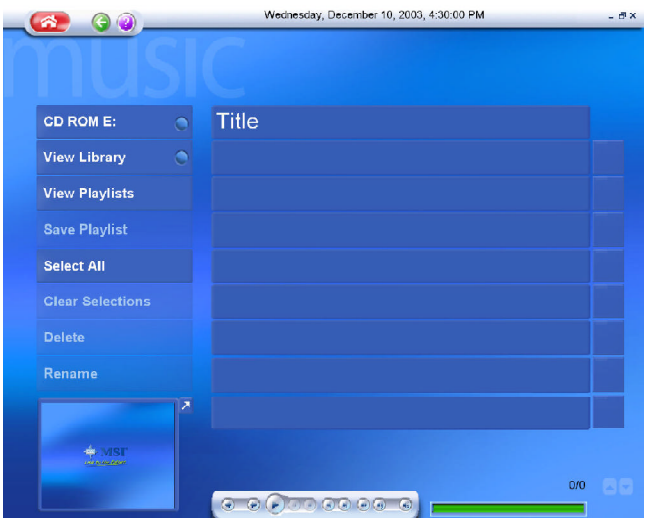
## Radio Mode

Click **Radio** to listen to broadcasts. See ***Section 5.4.6 Radio*** for details.

## CD/MP3 Mode

Click **Music** to play music from your pre-programmed playlists or CDs. See ***Section 5.4.2 Music*** for details.

# 5

# Media Center Deluxe III


5.1 What is Media Center Deluxe III
5.2 Installing Media Center Deluxe III
5.3 Setting the Media Center Deluxe III
5.4 Using the Media Center Deluxe III
5.5 Using the Remote Control
5.6 Uninstalling

# 5.1 WHAT IS MEDIA CENTER DELUXE III

Media Center Deluxe III is a brand-new platform for playing multimedia programs, including TV, radio, video, MP3, pictures and games. We have integrated all kinds of multimedia utilities into the Media Center Deluxe III. Instead of complicated operations and processes, there are only simple and bright buttons left on the Media Center Deluxe III, and what you need to do is just to click the button that is suitable for the aged and the children who are not familiar with the operating of the PC. Due to the fact that Media Center Deluxe III is highly integrated, and may consume a lot of PC resource, we strongly suggest that you install it on the PC running Windows 2000/XP to get the best performance.

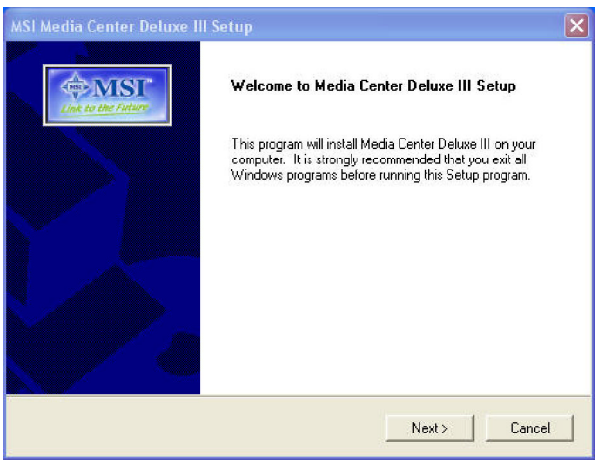
***Remind you...***

*If you want to use the TV function in the Media Center Deluxe III, please check whether your system has equipped the optional TV tuner card (MS-8606). If yes, please complete the driver and application installation for the TV tuner card.*

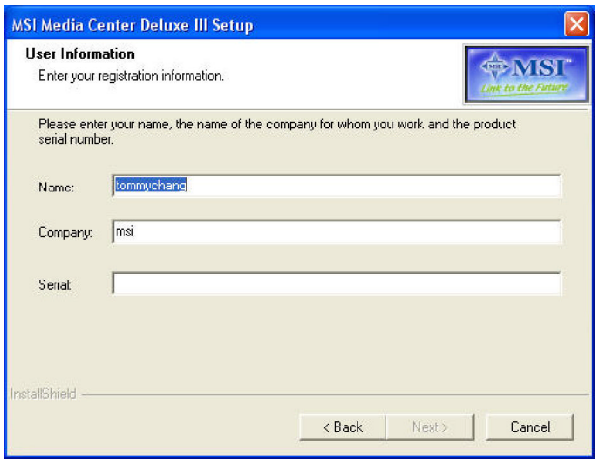
# 5.2 INSTALLING MEDIA CENTER DELUXE III

Insert the attached CD to install Media Center Deluxe III. The “Autorun” program will execute itself, and follow the instruction to install the Media Center Deluxe III.

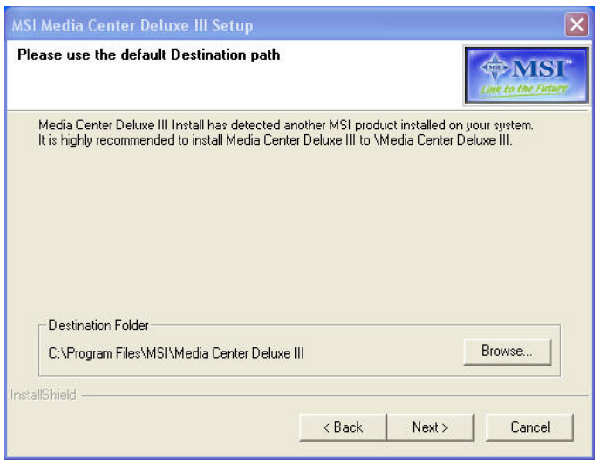
1. Click **Next** to continue.



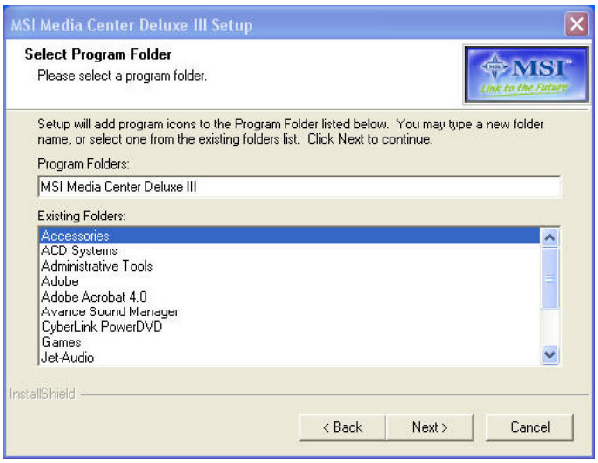
2. Enter user's information and serial number. The serial number can be found on the packing of the CD. Click **Next** to continue.



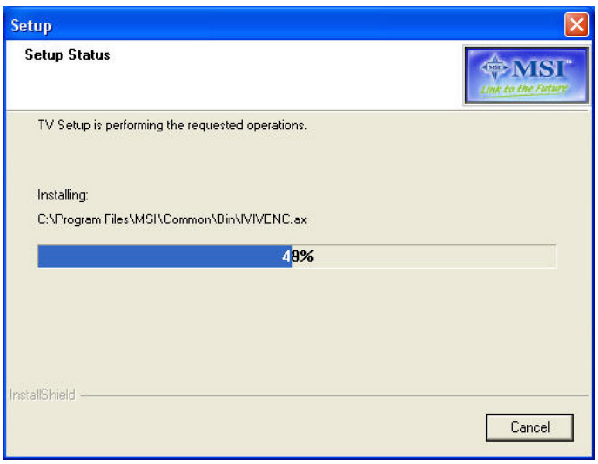

3. The Media Center Deluxe III will be installed to the default folder or your preferred one. Click **Browse** to point to the preferred folder. Click **Next** to continue.



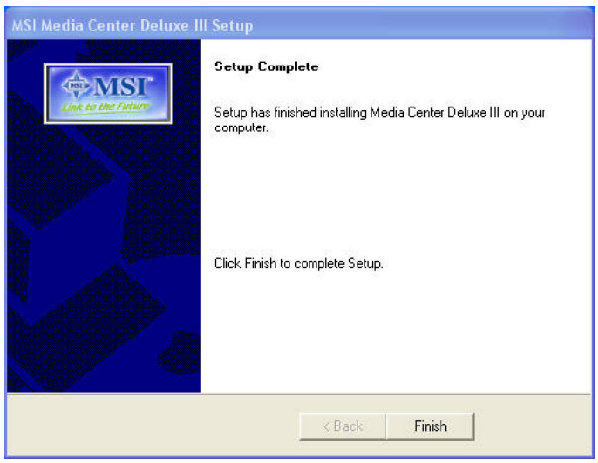
4. It will be installed with the default title of **MSI Media Center Deluxe III**. You can edit a preferred title for it. Click **Next** to continue.




5. The status bar shows the installation process.



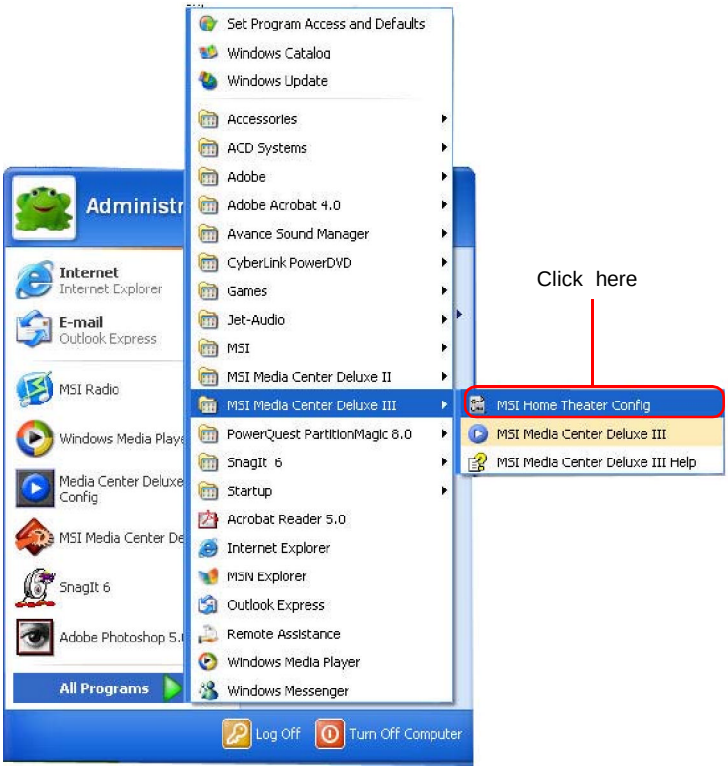
6. Click **Finish** to complete the Media Center Deluxe III installation.



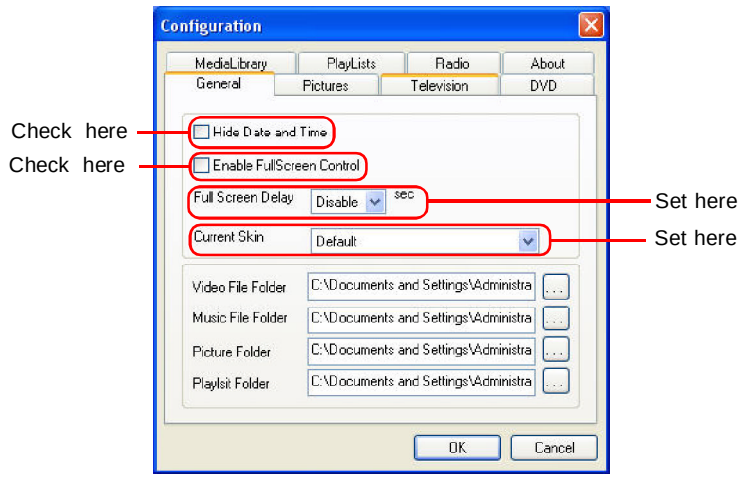
# 5.3 SETTING THE MEDIA CENTER DELUXE III

Once you have installed the Media Center Deluxe III, a pop-up window appears asking you to configure your system before entering the Media Center Deluxe III. **You can click OK** to skip the process, and then change these settings in the Media Center Deluxe III later.

You can also exit the Media Center Deluxe III and enter the setting processes again by clicking the icon on the desktop or the shortcut in the following path.



## 5.3.1 General




**Hide Date & Time**
You can decide whether the date & time to be displayed on the top of your Media Center Deluxe III.

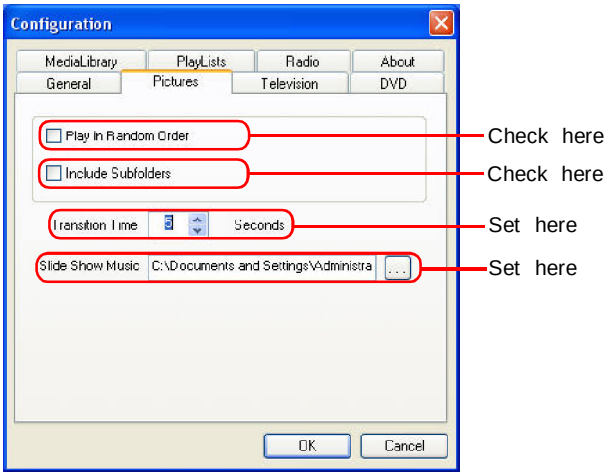
**Enable FullScreen Control**
You can check here to enable the full screen control.

**Full Screen Delay**
When you are playing a multimedia file, the file will be played in full screen after full screen delay time.

**Current Skin**
You can change the skin for your Media Center Deluxe III. The default skin is provided only currently.

**Video / Music / Picture / Playlist Folder**
The folder of the playing video / music / picture / playlist can be changed as you want. Click [...] to change the folder.

## 5.3.2 Pictures



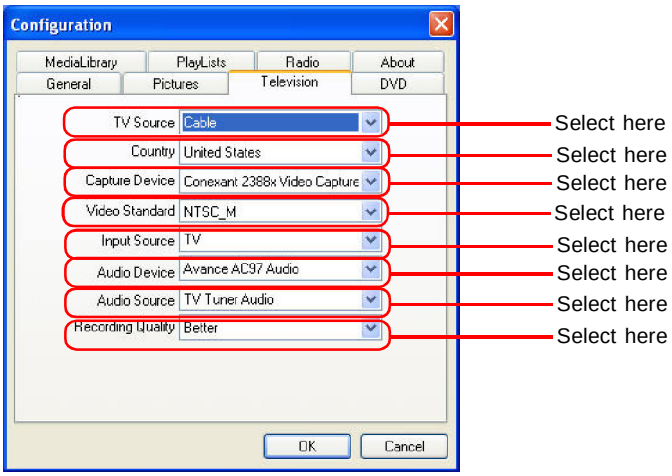

**Play in Random Order**
Check the box next to this option, and the pictures will be played at random when using slideshow.

**Include Subfolders**
Check the box next to this option, and those pictures in the subfolders will be played when using slideshow.

**Transition Time**
You are allowed to set time for picture slideshow. Take the window above as an example, when you use slideshow to view pictures, the picture shifts to next one after 2 seconds.

**Slideshow Music**
You can choose a song as the background music when using slideshow. Click ... to find a song.

## 5.3.3 Television




**TV Source**
You can set the TV source. Option: **Cable** and **Antenna**.

**Country**
Select the country where you are.

**Capture Device**
This item will show the video capture chipset that your tuner card is using.

**Video Standard**
Select the proper video standard for your area from the dropdown menu. The options available depend on the standards supported by the input source. Usually you do not have to select the standard because this item will change automatically according to the region or country you choose. A brief explanation for the different standards is given below.

When the National Television Systems Committee (NTSC) prepared the standards for commercial television broadcasting in the United States, Canada, Japan, and parts of Central and South America, they decided on 525 lines of display at thirty frames per second. In most of Europe, Australia, and parts of Central and South America, however, the Phase Alteration Line (PAL) standard, using 625 lines at 25 frames per second, was used. In addition, each TV system uses a slightly different range of TV frequencies.

**Input Source**

You can choose the source of video from cable TV, video device with S-Video connector or video device with Composite connector.

**TV** - Source from cable TV
**S-Video** - Source from device which supports S-Video output
**Composite** - Source from device which supports composite output

**Audio Device**

This item will show the audio chipset that your PC is using.

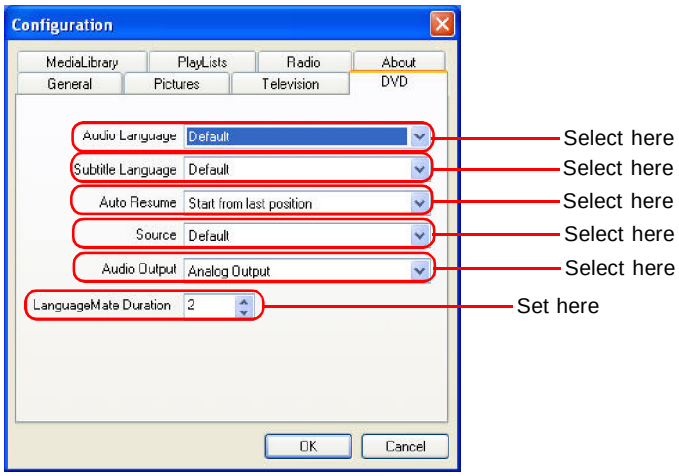
**Audio Source**

This item will show the audio source that your PC is using. The options in this item may vary according to the hardware of your PC. We strongly suggest that you choose **TV Tuner Audio** as default audio source .

**Recording Quality**

This item allows you to set the quality of recording video.

## 5.3.4 DVD




**Audio Language**
The DVD will be played in the language that you choose, if supported.

**Subtitle**
The DVD will be played with the subtitle that you choose, if supported.

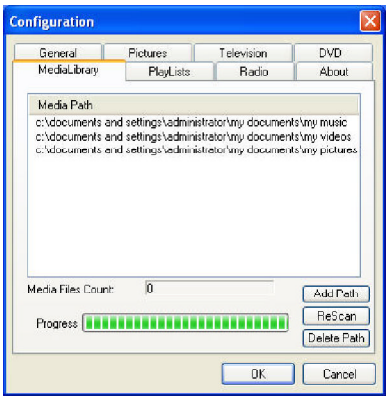
**Auto Resume**
The video will be played from the position that you choose. Option: **Strat from beginning** or **Start from last position**.

**Source**
The DVD will be played from the DVD-ROM drive. If you have installed other DVD-ROM drives, please select the preferred one.

**Audio Output**
You can adjust the audio output according to your audio equipment.

**LanguageMate Duration**
The DVD will be repeated with the duration. This function is helpful for language learning.

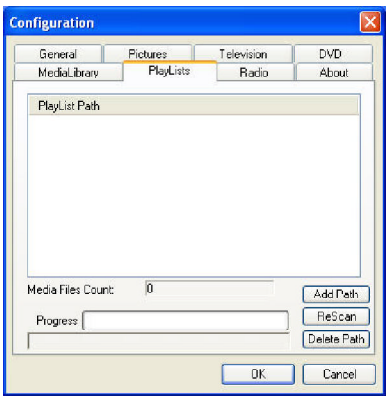
## 5.3.5 MediaLibrary




**Add / Delete Path**

The location of the media files can be added / delected in advanced. When playing multimedia files in the Media Center Deluxe III, those files in the locations above will be used. Click **ReScan**, the Media Center Deluxe III will resume the content of the media library.

## 5.3.6 PlayLists



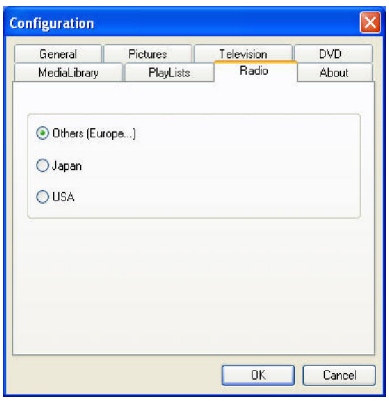

**Add / Delete Path**

The location of the play lists can be added / delected in advanced. When playing music files in the Media Center Deluxe III, those play lists in the locations above will be used. Click **ReScan**, the Media Center Deluxe III will resume the content of the play lists.

### 5.3.7 Radio

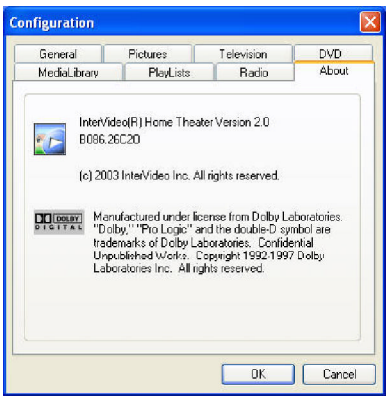
Each area has its proprietary frequency range. If you are unable to receive some stations in your area, there might be the inporper setting in this option. Check the porper radio box to correct the problem. The range for each area is listed below:

Others(Europe) --- 87.5 ~ 108.0 MHz
Japan --- 76.0 ~ 91.0 MHz
USA --- 87.9 ~ 107.9 MHz



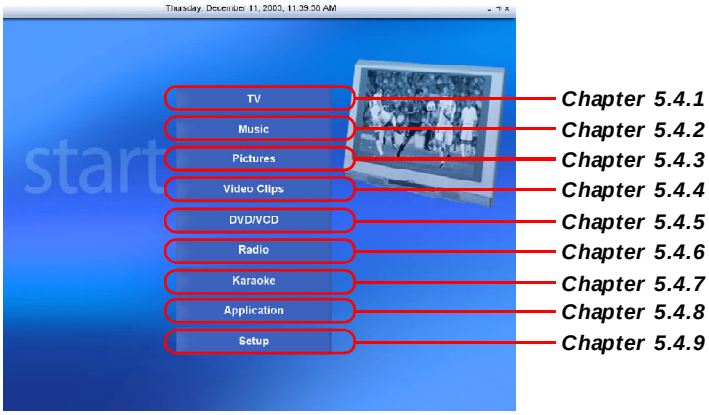

### 5.3.8 About

This tab shows some information of the Media Center Deluxe III. The version showed in the picture is for reference only.



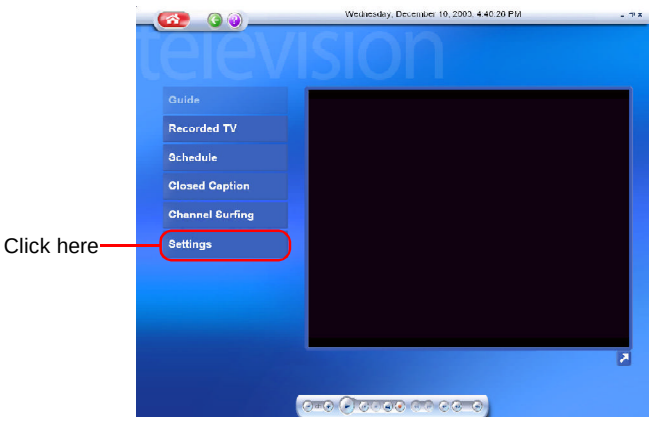
# 5.4 USING THE MEDIA CENTER DELUXE III

Click the Media Center Deluxe III icon on the desktop, the main page of the Media Center Deluxe III will show as below:



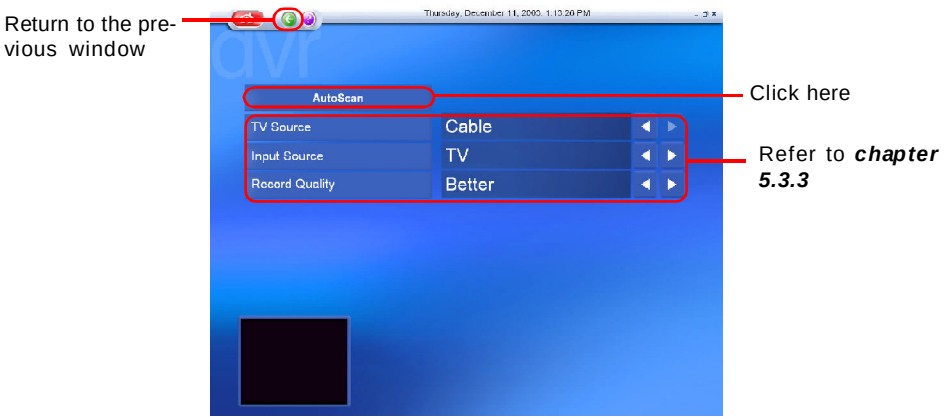

## 5.4.1 TV

Click **TV** to activate the embedded application for watching TV. Your screen may be invalid for the first time. Please click **Settings** to scan the available channels.



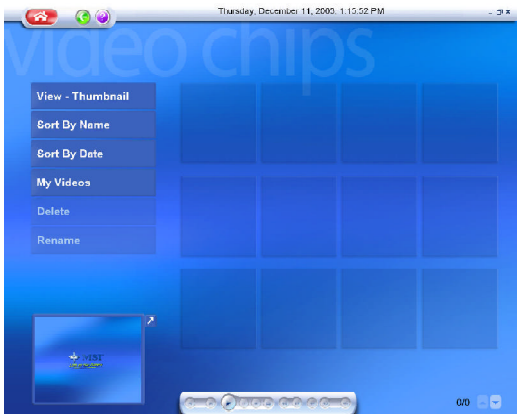
***Settings***

Click **AutoScan**, it will automatically scan all available channels for content. The number of channels available varies depending on whether you are using an antenna or cable TV. While it is scanning for channels, each channel will briefly appear in the display window. When channel scanning is finished, return to the previous window.



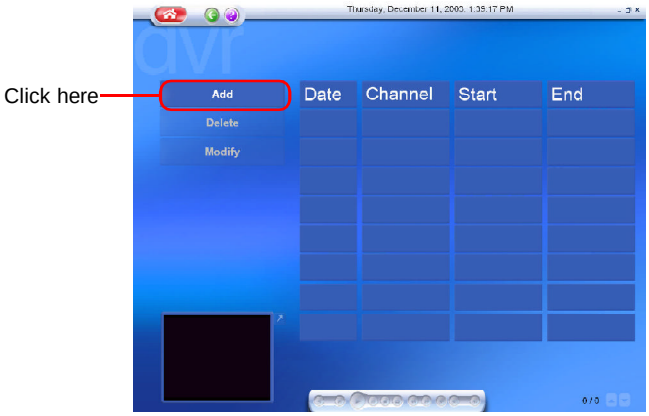

***Recorded TV***

Click **Recorded TV**, you can play the recorded TV clips in your hard disk drive (The location of these recorded TV clips has been specified in ***chapter 5.3.1***). Double click the file name to play.



***Schedule***

Click **Schedule** to enter the recording schedule screen. Click **Add** to program a one time only/weekly/daily recording; in addition, you can click **Delete** or **Modify** to delete or modify the existen schedule.




***Closed Caption***

In some area, the TV programs come with hided caption. Click **Closed Caption** to show or hide the caption.

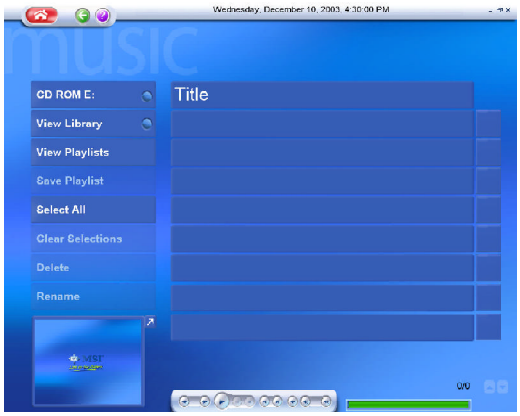
***Channel Surfing***

When watching TV, click **Channel Surfing** to display a 4x4 grid of channel images in the display window for a quick overview of available programs.

Thumbnail images will begin to appear in the display window. You may preview a program by clicking once on the image. The program will be displayed for three seconds, then surfing will resume. If you decide that you would like to jump to that program, double-click on the image.

## 5.4.2 Music

Click **Music,** you can play music from your pre-programmed playlists or CD.




***My Location***

The Media Center Deluxe III will play the music files from your optical drives.

***View Library***

The **Library** share the same content with that of the Microsoft® Media Player® is listed in this window. Please edit the Microsoft® Media Player® library in advance.

***View Playlists***

The **playlists** share the same content with that of the Microsoft® Media Player® is listed in this window. Please edit the Microsoft® Media Player® playlist in advance.

***Save Playlist***

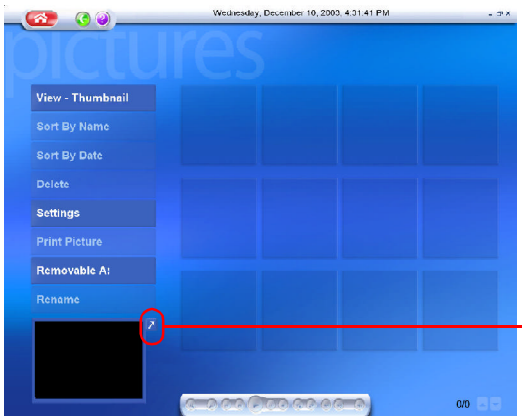
You can save the playlist as your favorite. The format of the music must be MP3.

***Setting***

You can enter this window for detailed settings.

## 5.4.3 Pictures

Click **View Pictures,** you can view pictures from a specified folder.




***Sort by Name / Sort by Date***
The pictures can be sorted by name or date as you like.

***Settings***
Please refer to ***chapter 5.3.2.***

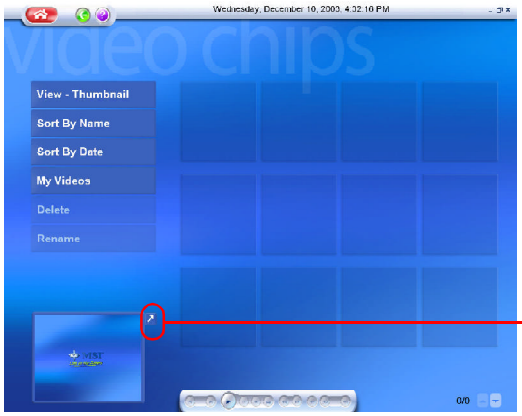
***Print Picture***
Click this button to print the playing picture.

## 5.4.4 Video Clips

Click **Video Clips** to enter the Video Clips Setup menu. **View-Thumbnail** allows you to preview the video clips in different folders. Click **View-Thumbnail** to switch to **View-Detail** which shows the name and length of each title. Double-click the folder or the title to view video clips from a specified folder.

***Sort by Name / Sort by Date***
The video clips can be sorted by name or date as you like.

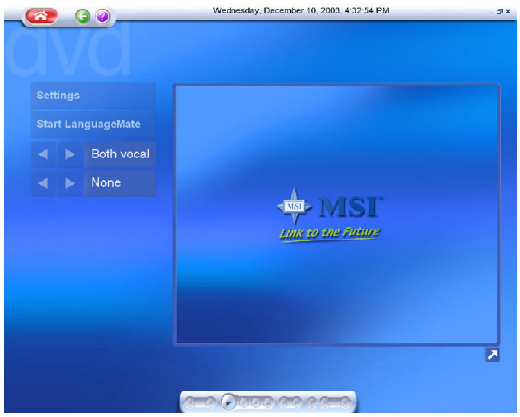
***My Location***
The Media Center Deluxe III will play the video clips from your optical drives.




Click here to view the video clip in full screen. Press ESC key to resume

## 5.4.5 DVD / VCD

Click **DVD / VCD** to watch DVD ro VCD.



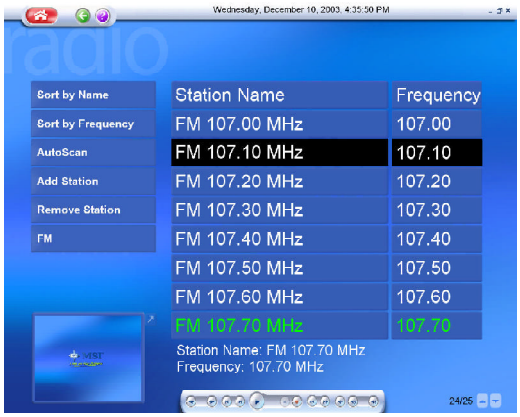

***Settings / Start LanguageMate***
Please refer to ***chapter 5.3.4.***

***Vocal***
There are left, right and both vocal for your selection.

***Sound Effect***
You can choose a virtual sound effect for the playing DVD / VCD. These virtual sound effects are None, Rock, Bass, Hall, Soft, Vocal, Echo and Karaoke.

## 5.4.6 Radio

Click **Radio** to listen to broadcasts.




***Sort by Name / Frequency***
These stations can be sorted by name or frequency as you like.

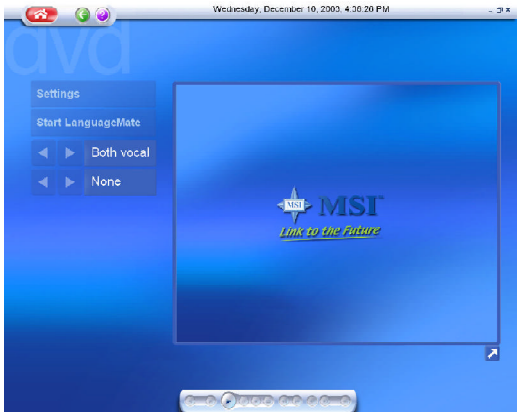
***AutoScan***
When first launch the radio player, please click **AutoScan** to add all available stations to your station lists. Double click the station name to listen to the station.

***Add / Remove Station***
Click **Add / Remove Station** to add / remove a station.

***FM /AM***
You can swich between FM and AM by clicking this button.

## 5.4.7 Karaoke

Click **Karaoke** to play Karaoke DVD/VCD.



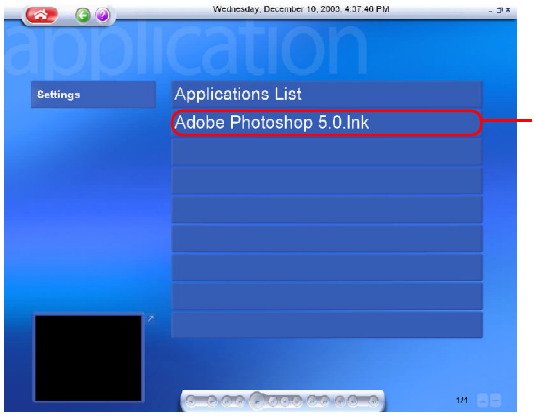

***Settings / Start LanguageMate***
Please refer to ***chapter 5.3.4.***

***Vocal***
There are left, right and both vocal for your selection.

***Sound Effect***
You can choose a virtual sound effect for the playing DVD / VCD. These virtual sound effects are None, Rock, Bass, Hall, Soft, Vocal, Echo and Karaoke.

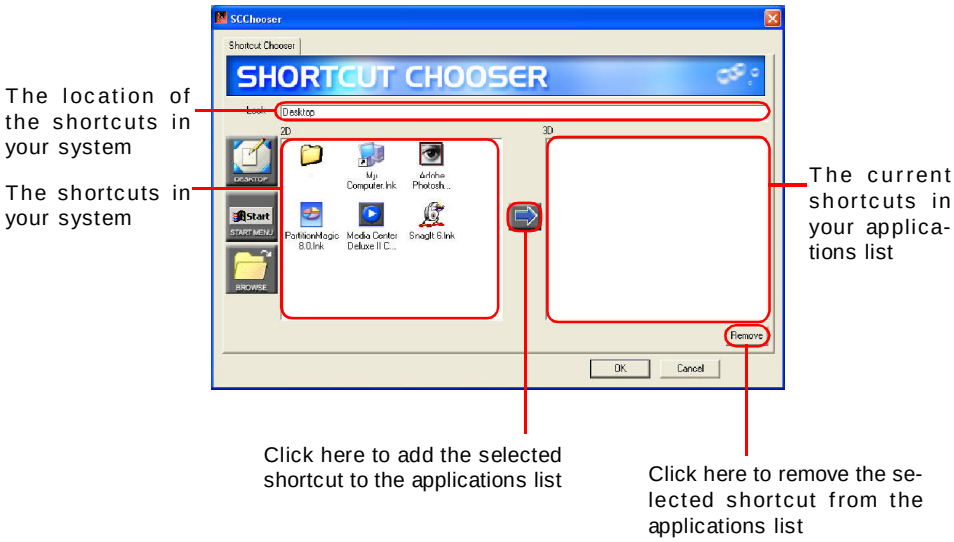
## 5.4.8 Application

Click **Application** to quick launch an application.



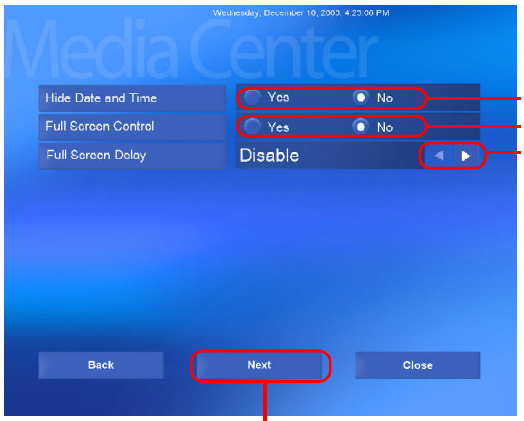

***Settings***

Click Settings to edit the applications list.



## 5.4.9 Setup

Click **Setup,** the window shows step-by-step procedures guiding you to personalize your Media Center Deluxe III.




***Hide Date & Time***

You can decide whether the date & time will be displayed on the top of your Media Center Deluxe III.

***Full Screen Control***

You can decide whether to control the full screen display.

***Full Screen Delay***

When you are playing a multimedia file, the file will be played in full screen after full screen delay time.


***TV Source***
You can set the TV source. Option: **Cable** and **Antenna**.

***Country***
Select the country where you are.

***Video Capture Device***
This item will show the video capture chipset that your tuner card is using.

***Input Source***
You can choose the source of video from TV cable, video device with S-Video connector or video device with Composite connector.

***Video Standard***
Select the proper video standard for your area from the menu. The available options depend on the standards supported by the input source.

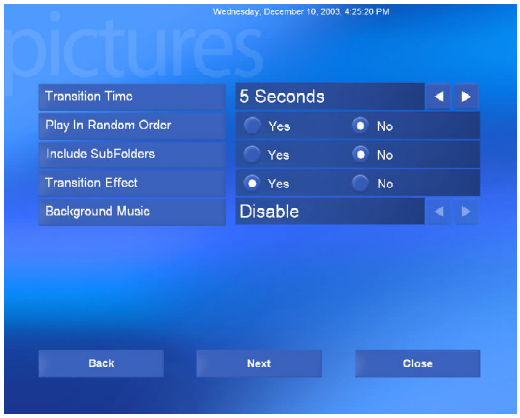
***Audio Device***
This item will show the audio chipset that your PC is using.

***Audio Source***
This item will show the audio source that your PC is using. The options in this item

may vary according to the hardware of your PC.

***Recording Quality***

This item allows you to set the quality of recording video.




***Transition Time***

You are allowed to set time for picture slideshow. Take the window above as an example, when you use slideshow to view pictures, the picture shifts to next one after 2 seconds.

***Play in Random Order***

Check the box next to this option, and the pictures will be played at random when using slideshow.

***Include Subfolders***

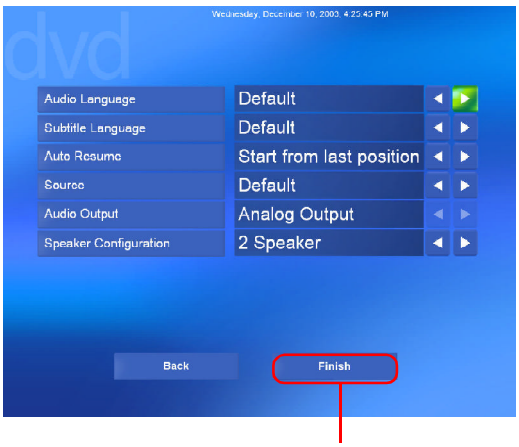
Check the box next to this option, and those pictures in the subfloders will be played when using slideshow.

***Transition Effect***

Check the box next to this option, there would be a transition effect when shifting to the next picture.

***Background Music***

This item shows the current location of the background music when using slideshow.




***Audio Language***

The DVD will be played in the language that you choose, if supported.

***Subtitle Language***

The DVD will be played with the subtitle that you choose, if supported.

***Auto Resume***

The video will be played from the position that you choose. Option: **From beginning** or **From last position**.

***Source***

The DVD will be played from the DVD-ROM drive. If you have installed other DVD-ROM drives, please select the prefered one.

***Audio Output***

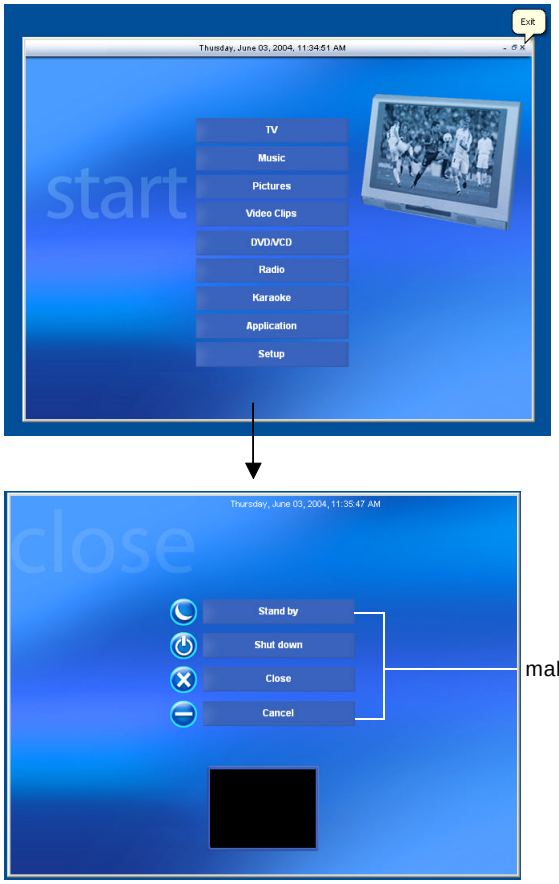
You can adjust the audio output according to you audio equipment.

***Speaker Configuration***

You can set the play mode for the speaker.

## 5.4.10 Exit

Click **Exit** to exit the Media Center Deluxe III Setup menu.




***Standby:*** The system will enter the power saving mode.

***Shut down*:** The system will be powered off.

***Close:*** The Media Center Deluxe III application will be closed.

***Cancel:*** The Media Center Deluxe III Setup menu resumes.

# 5.5 USING THE REMOTE CONTROL

You can use the attached remote control to control TV as you do in the living room. Check the following note if your remote control doesn't function.

---

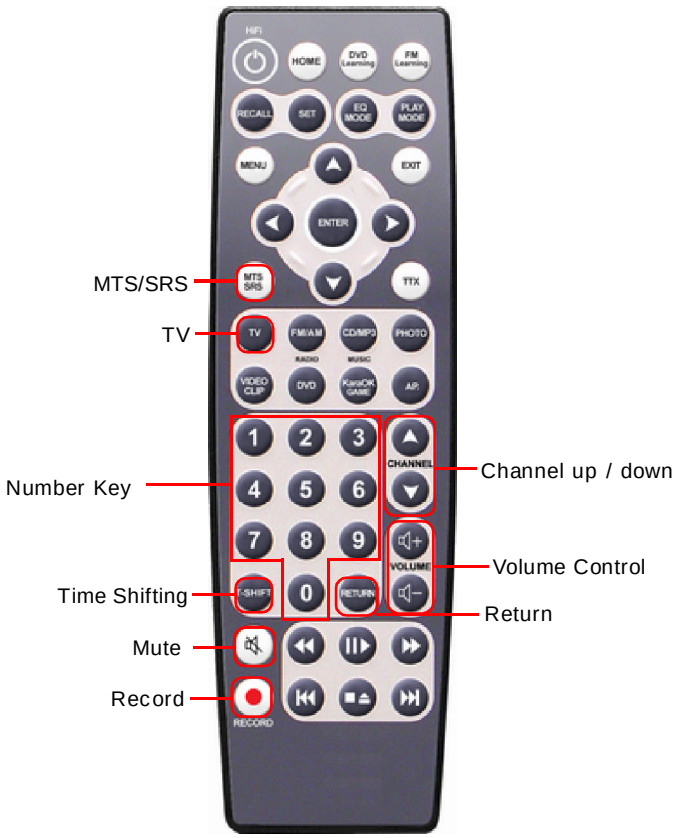
*What if the TV Tuner Card is installed correctly...*

*What if all necessary cables are connected...*

*What if the TV Tuner Card driver and the application are installed...*

*What if the batteries are installed in the remote control...*

---



***TV***

Press the Hi-Fi button under operating system to launch Media Center Deluxe III or PVS alone (if Media Center Deluxe III is not installed). If the PVS is not installed, the Hi-Fi button is void.

***Number Key***

You can enter the numbers of channel directly to shift to the channel you want.

***Return***

You can press the return button to shift to the previous channel.

***Time Shifting***

The Timeshifting button allows you to pause, replay, or skip commercials during live TV, without interrupting an ongoing recording session. Timeshifting gives you absolute control over how you watch television. You can take a break watching a live show, and pick up where you left off, or instantly jump back to live view.

***MTS/SRS***

You can activate the MTS/SRS audio effect if the playing TV channel supports.

***Mute***

Press the mute button to mute and again to resume.

***Channel up/down***

You can press the channel up/down button to shift to the previous/next available TV channel.

***Volume Control***

Press up / down button to increase / decrease the volume.

***Record***

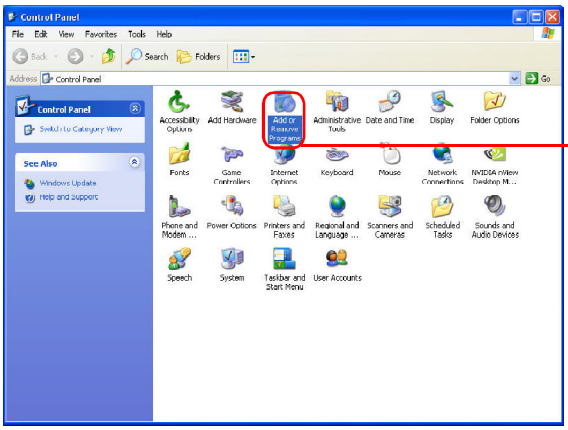
You can press this button to record the playing TV program instantly.

# 5.6 UNINSTALLING

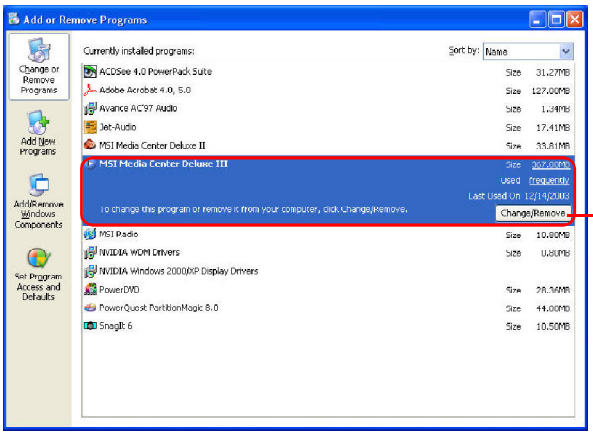
Follow the steps below to uninstall the Media Center Deluxe III:

1. Click **Control Panel** icon in the **Start** menu.

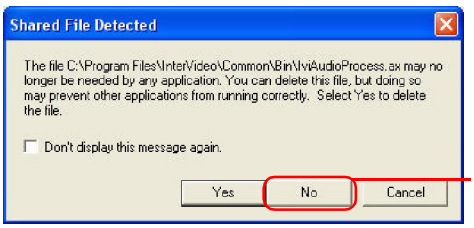
2. Find and double-click **Add or Remove Programs** icon.



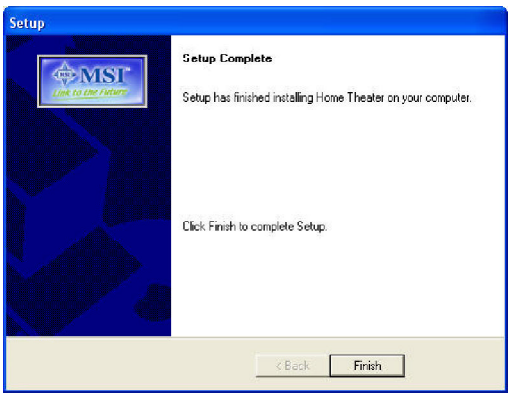

3. Select the program that you want to remove. Click **Change/Remove** to continue.



4. Please ***DO NOT REMOVE THE SHARED FILES***. Always click **No** to continue.




5. Click **Finish** to complete the uninstallation.



# 6

# Wireless LAN Card (for Deluxe Model)


6.1 Introduction
6.2 Wireless Network Utility
6.3 Encryption
6.4 Status
6.5 Information

Chapter 6

# 6.1 INTRODUCTION

The Wireless LAN Card, compliant with IEEE802.11b, is a high-efficiency wireless adapter for wireless networking at home, in office or in public places. The data transfer rate can be auto-negotiated to 1, 2, 5.5Mbps or up to 11Mbps, and is compatible with any existing IEEE802.11b devices.

With Wireless LAN Card, you can roam between conference room and office without being disconnected the LAN cables; in addition, sharing files and printers can be easy tasks.

The Wireless LAN Card is available to Microsoft Windows operating systems (Windows® XP/2000/ME/98SE) and can be integrated into networking with either **Ad-hoc mode** (computer-to-computer, without an Access Point) or **Infrastructure mode** (computer-to-access point, an Access Point is required).

## 6.1.1 Hardware Specifications

**Compliant Standards**
- IEEE802.11b

**Bus and Connector Types**
- 32-bit 3.3V Type IIIA
- 124-pin Golden Finger

**Security Mechanism**
- Hardware-based WEP Privacy

**Operational Environment**
- Operational Temperature: 0~55°C
- Humidity: 10~90% (Non-Condensing)

**Weight and Dimension**
- Weight:12g
- Dimension: 50.8 x 59.6 x 4.9mm

## 6.1.2 Radio Frequency Specifications

**Raw Data Rates and Modulation Types**
- IEEE802.11b (Auto-Fallback)
  CCK: 11 and 5.5Mbps
  DQPSK: 2Mbps
  DBPSK: 1Mbps

**Communication Protocol**
- DSSS (Direct Sequence Spread Spectrum) with ACK
- Half-Duplex

**Access Method**
- Infrastructure Mode: Station-To-LAN Architecture
- Ad-Hoc Mode: Station-To-Station Architecture

# 6.2 WIRELESS NETWORK UTILITY

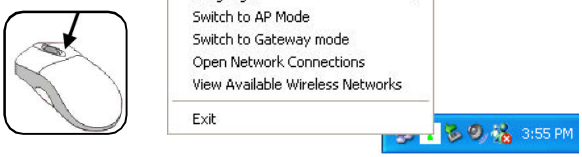
After installing the driver, the Wireless LAN Card provides a convenient and powerful utility that allows you to set up, configure, and know your networking status easily and clearly.

## 6.2.1 The Wireless LAN Icon

- Not connected to the network.
- Connected to the network.
- Receiving/transmitting data from/to the network.

When you move the mouse over the icon, it shows the current connection information.


**Right-clicking** the icon will bring up a sub-menu containing more settings:



**Language**
You can select language according to your operating system.

**Switch to AP Mode** (optional)
If your wireless LAN adapter supports Software AP function, you can see this item in the sub-menu, and which allows you to use your wireless adapter as a virtual access point. For details, refer to the *Software AP/Gateway User's Guide.*

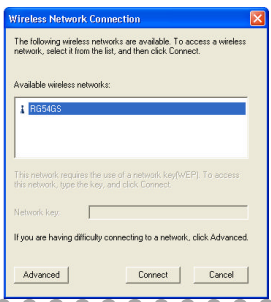
**Switch to Gateway Mode** (optional)
If your wireless LAN adapter supports Software Gateway function, you can see this item in the sub-menu, and which allows you to use your wireless adapter as a virtual gateway. For details, refer to the *Software AP/Gateway User's Guide.*

**Open Network Connections**
Select to open the Network Connections window.

**View Available Wireless Networks**
Launch the utility to configure your network settings.

**Exit**
Close the program.

- **Clicking** the icon will launch the utility as shown below to configure your network settings.

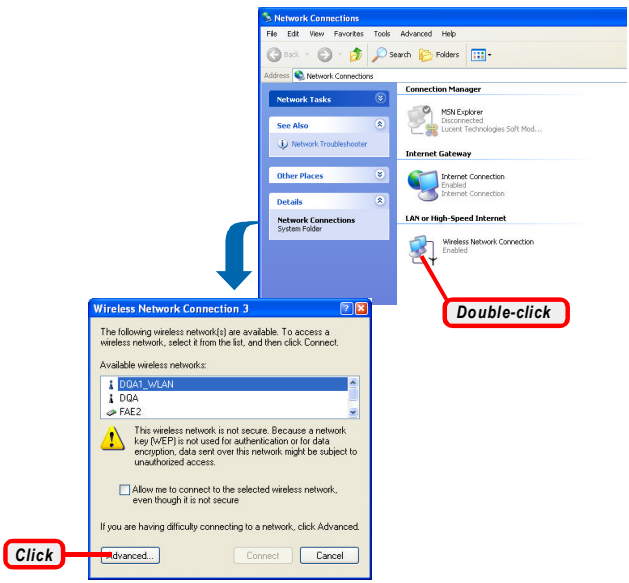


## 6.2.2 Changing the Control Setting(for Windows XP Only)

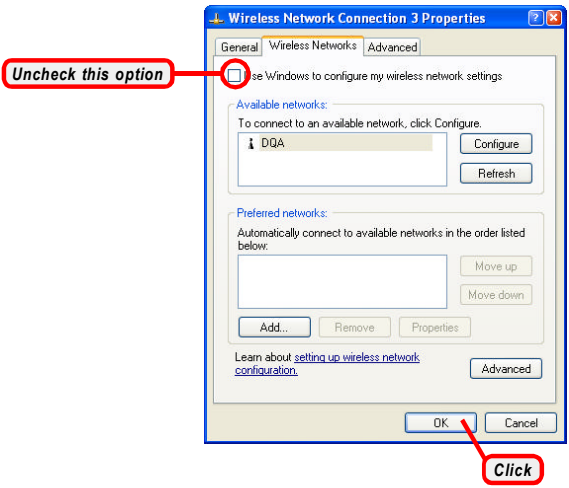
If you use Windows XP, the wireless LAN is controlled by the operating system (default). To take full advantage of your wireless adapter, it is recommended to use the Wireless Network Utility to control your wireless LAN.

**To change the control setting:**

1. Right-click the Wireless LAN icon and select the **Open Network Connections** option.
2. In the **Network Connections** window, double-click the Wireless Network Connection icon to bring up the following dialog window.



3. Click ***Advanced***, and the **Properties** window will appear as below.




4. Uncheck the **Use Windows to configure my wireless network settings** option. Then, click ***OK***.
5. Now, you can use the Wireless Network Utility to configure your network.

# 6.3 NETWORKING

Since the wireless LAN card is installed in your computer, you have to configure the settings for communication to start working in your network environment.

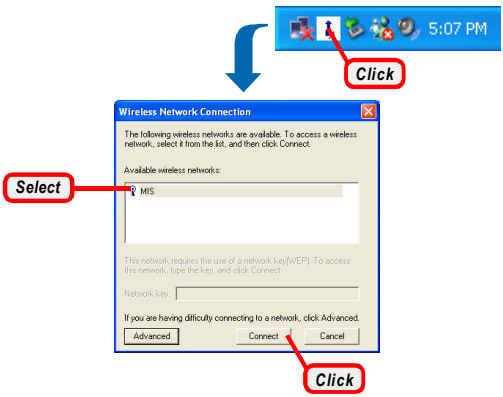
## 6.3.1 Infrastructure Mode

Infrastructure mode allows your computer to communicate with the other computers in the network through an Access Point. The following tasks should be done before you configure the settings:

- The Access Point must be turned on.
- Your computer with wireless adapter installed and the Access Point must be located with the communication range of the Access Point (see the Access Point's manual for details).

**Connecting to the Access Point:**

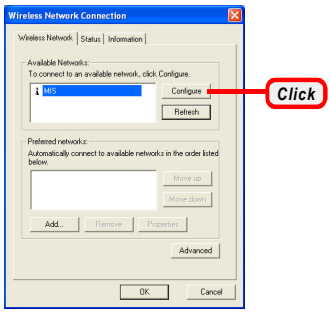
1. Click the Wireless LAN icon to bring up the **Wireless Network Connection** window.




2. In the list of Available wireless networks, select (highlight) the network you want, and then click ***Connect***.

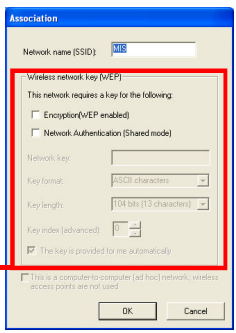
**If you want to configure the network settings:**

1. Click ***Advanced*** in the Wireless Network Connection window.
2. The Available Networks field contains a list of available Access Points in your network. Select (highlight) one network you want, and then click ***Configure*** to set up the selected network. You can click ***Refresh*** to search the available Access Points in the network again.

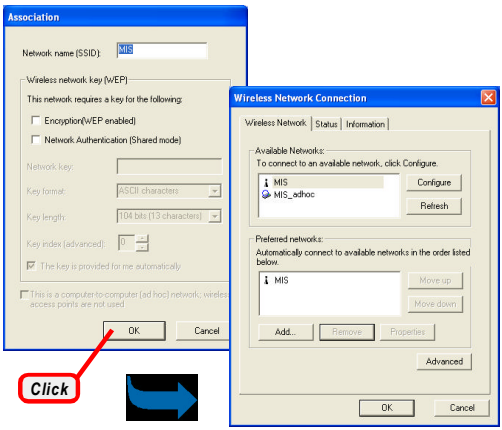



3. Setup the Network Key (if needed) in the Wireless Network Key (WEP) field according to the network's settings.

***Only*** *the network administrator can change the SSID and WEP settings in the Association window; if you have problem of accessing the network, please ask the administrator for help.*



**4.** Click ***OK***. The selected network will appear in the Preferred Networks field. If it contains two or more networks in the list, you can use ***Move up/Move down*** to set the priority.




**5.** Click ***OK*** to complete the configuration, and an icon indicating connected to the network will appear in the status area.


***connected***

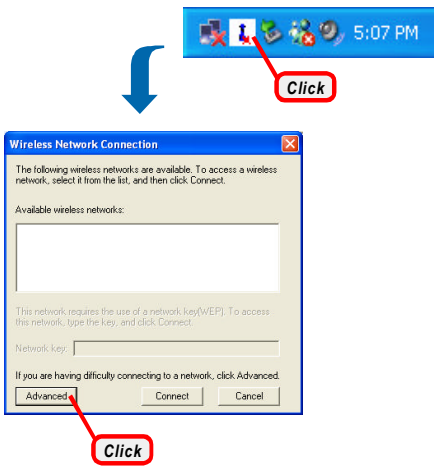
## 6.3.2 Ad-hoc Mode

Ad-hoc mode allows your computer to communicate directly with any computer installed with compatible wireless adapter. If you want to use the network in Ad-hoc mode:

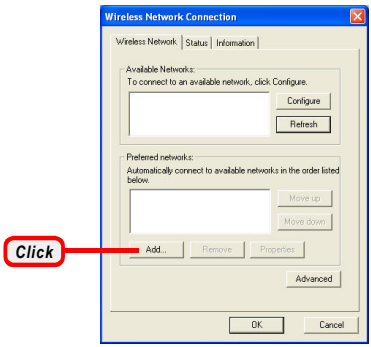
- All the computers connected should be set to Ad-hoc mode.
- The computers have the same SSID (network name) setting.

**To configure the settings:**

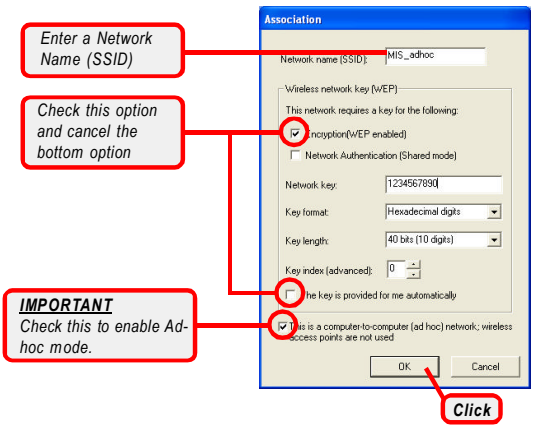
1. Click the Wireless LAN icon to bring up the **Wireless Network Connection** window. Then, click ***Advanced***.



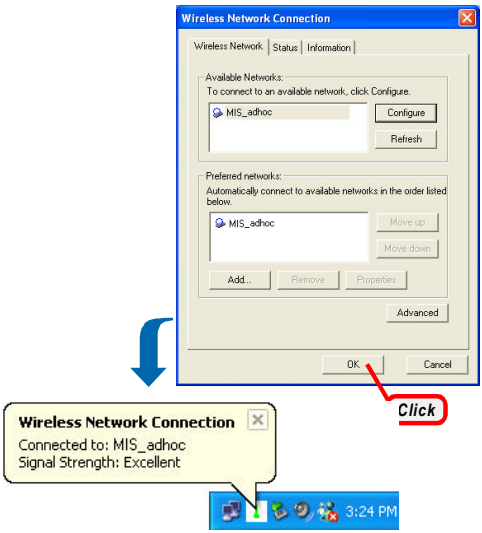
**2.** You can build up the Ad-hoc network by clicking ***Add*** in the Preferred Networks field.




**3.** Set up the Network Name (SSID) and Network Key (if needed) for the network. Then, check the **This is a computer-to-computer [ad hoc] network; wireless access points are not used** option and click ***OK*** to enable the Ad-hoc mode.



**4.** The Ad-hoc network will appear in the Available Networks field. Click ***OK***, and an icon indicating connected to the network appears in the status area.



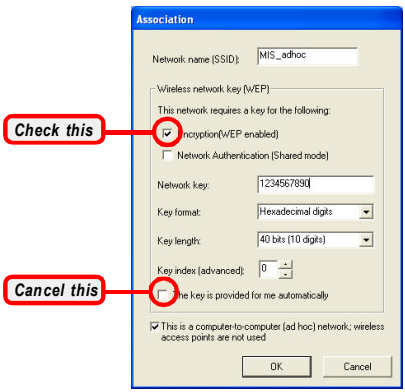

*connected*

**5.** The computer set up with this Ad-hoc network in ***step 3*** is the designated administrator of the network. Any computer can access the network by selecting ***Connect*** in the Wireless Network Connection window.

# 6.4 ENCRYPTION

In the wireless network environment, the administrator can set up password (Network Key) to protect the network from being attacked or unauthorized access. When building the network, you can set up 4 sets of WEP keys, which can be 5 characters (10 hex-adecimal digital) or 13 characters (26 hex-adecimal digital) and specify one of them to use.

*To setup the Network Key, check **Encryption** option first, then cancel **The key is provided for me automatically** option.*




**Network key**
Enter a key for the network.

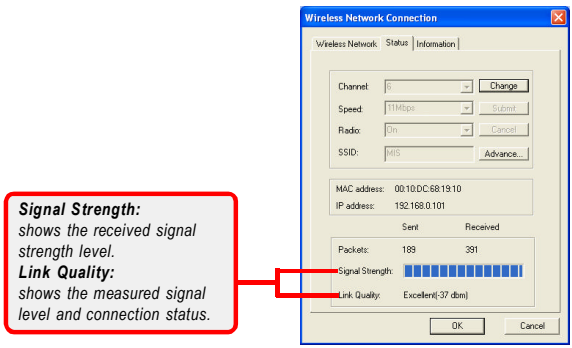
**Key format**
You can decide the network key to be encoded by ASCII characters or hexadecimal digitals.

**Key length**
In ASCII characters format, it can be 5 or 13 characters. In hexadecimal digitals format, it would be 10 or 26 digitals.

**Key index**
There can be up to 4 sets of WEP key (1~4). The 4 sets of WEP key must have the identical sequence with the key settings on the Access Point.

# 6.5 STATUS

In the **Status** tab, you can configure more network settings.




**Channel**
Specifies the operating radio frequency channel in Ad-hoc mode, which should be set to the same channel as the other points in the wireless network.

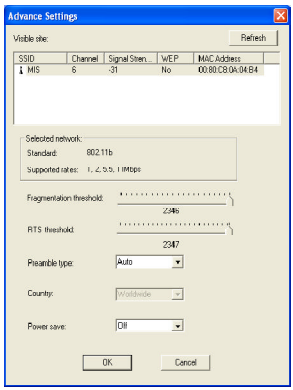
**Speed**
This field sets the current transmitting rate. The speed should be set to ***Auto*** rate to optimize performance and range, which will adjust the transfer speed for best performance and longest range automatically.

**Radio**
Set to ***On*** to activate the radio.

**SSID**
Means Service Set Identifier, a unique name shared among all points in a wireless network. It must be identical for all points in the network. Then the card will be able to connect to an access point with the same SSID.

Click ***Advance***, and you can get more information about the LAN traffic status and more detailed settings.

*It is not recommended to change these settings if you are not familiar with the advanced configuration.*




**Fragmentation Threshold**
You may set the length of the fragment in this field. Please note that each fragment should not be larger than the Fragmentation Threshold.

**RTS/CTS Threshold**
You may set the length threshold.

**Preamble Type**
You may set the length of preamble in this field. The available options are:

- ***Long:*** *It is set to 144 bits.*
- ***Short:*** *It is set to 72 bits.*
- ***Auto:*** *The card supports an auto-detection feature, it will automatically select the* ***Preamble Type*** *depending on the Access Point Preamble Type if this option is selected.*

**Country**
Display the country that you are in (read only).

**Power save**
The card will turn into power save mode when idle.

# 6.6 INFORMATION

In the **Information** tab, you can get some information about the manufacturer, hardware and software.